

# **GENERAL APPLICATION**

APPLICATION DATE:		
2600 Hollywood Blvd Room 315 Hollywood, FL 33022	APPLICATION TYPE (CHECK AL  Technical Advisory Committee  Planning and Development Board  City Commission	L THAT APPLIES):  Art in Public Places Committee  Historic Preservation Board  Special Exception  Administrative Approval
Tel: (954) 921-3471 Email: Development@ Hollywoodfl.org  SUBMISSION REQUIREMENTS:  One set of signed & sealed plans (i.e. Architect or Engineer)  One electronic combined PDF submission (max. 25mb)  Completed Application Checklist  Application fee	Folio Number(s): 51421302870  Zoning Classification: BWK-25-HD-FExisting Property Use: Residential - Is the request the result of a vio	Subdivision: Hollywood Beach  R Land Use Classification: Residential  Vacant Sq Ft/Number of Units: 1 Unit 9,881 Sq. Ft.  Iation notice? Yes No If yes, attach a copy of violation to the City before? If yes, check all that apply and provide Fi
	Phased Project: Yes ☑ No ☐ Num	Proposal
NOTE:	Units/rooms (# of units)	# UNITS: 1 #Rooms
This application must	Proposed Non-Residential Uses	N/A S.F.)
be <u>completed in full</u> and submitted with all	Open Space (% and SQ.FT.)	Required %: (Area: S.F.)
documents to be placed	Parking (# of spaces)	PARK, SPACES: (# 5 )
on a Board or Committee's agenda.	Height (# of stories)	(# STORIES) 4 ( 40 FT.)
The applicant is	Gross Floor Area (SQ. FT)	Lot(s) Gross Area ( 6,376 Sq Ft ( FT.)
responsible for obtaining the appropriate checklist for each type of application.  • Applicant(s) or their authorized legal agent	Name of Current Property Owner Address of Property Owner: 2417 Ho Telephone: 954-920-5746 Em Applicant Joseph B. Kaller Kaller Arc	: 501 S. Surf Rd Trust  Illywood Boulevard  ail Address: joseph@kallerarchitects.com
must be present at all	Address: 2417 Hollywood Boulevard Hol	Teriani [ ] representative [ ] renant [
meetinge	Email Address: joseph@kallerarchitects	reiepriorie. 004-320-3740
	Email Address #2:	
		there an option to purchase the Property? Yes 🔲 No 🗹
A STATE OF THE PARTY OF THE PAR	If Yes, Attach Copy of the Contract.	No E
CLEAN MEAN IN	Noticing Agent (FTAC & Board sub	omissions only) : Cutro & Associates
	E-mail Address: cutroplanning@vahoo	



# GENERAL APPLICATION

# CERTIFICATION OF COMPLIANCE WITH APPLICABLE REGULATIONS

The applicant/owner(s) signature certifies that he/she has been made aware of the criteria, regulations and guidelines applicable to the request. This information can be obtained in Room 315 of City Hall or on our website at <a href="www.hollywoodfl.org">www.hollywoodfl.org</a>. The owner(s) further cerpost that when required by applicable law, including but not limited to the City's Zoning and Land Development Regulations, they will post the site with a sign provided by the Office of Planning and Development Services. The owner(s) will photograph the sign the day of sign will result in violation of State and Municipal Notification Requirements and Laws.

(I)(We) certify that (I) (we) understand and will comply with the provisions and regulations of the City's Zoning and Land Development Regulations, Design Guidelines, Design Guidelines for Historic Properties and City's Comprehensive Plan as they apply to this project. (I)(We) further certify that the above statements and drawings made on any paper or plans submitted herewith are true to the best of (my)(our) knowledge. (I)(We) understand that the application and attachments become part of the official public records of the City and are not returnable.

Signature of Current Owner:	Date: 10/8/24
PRINT NAME: Melissa M. Grossman as Trustee of 7	the 5018. Surf Trust 10/8/24
Signature of Consultant/Representative:	Date: 10-8-2024
PRINT NAME: Joseph B. Kaller	Date: _10-8-24
Signature of Tenant:	Date:
PRINT NAME:	Date:
am the current owner of the described and an arrangement of the described and arrangement of the described arrange	
I am the current owner of the described real property and that I am at Historic Preservation Review to my property, which is her Joseph B. Kaller Kaller Architecture to be my legal representative before Committee) relative to all matters concerning this application.	ware of the nature and effect the request for reby made by me or I am hereby authorizing the Historic Preservation (Board and/or
Sworn to and subscribed before me	Alma
his 8th day of October 2024  Me.	Signature of Current Owner  Lissa M. Grossman, as Trustee of the  Print Name  5015. Sucf F
lotary Public State of Florida Commonwealth of Pennsylvania	Print Name 5015 Surf F
ly Commission Expires:(Check One) Personally known to me; OR	Trust
Commonwealth of Pennsylvania - Noten-Sc	

Commonwealth of Pennsylvania - Notary Seal TINA P. FELDMAN, Notary Public Philadelphia County My Commission Expires May 4, 2026 Commission Number 1417912



#### **Kaller**Architecture

#### 501 S SURF RD. HOLLYWOOD, FL. 33019

#### **DESIGN CRITERIA AND PROJECT DESCRIPTION**

The design for this four-story residence, situated in a prime location facing the ocean, is conceived under the core principles of contemporary architecture, emphasizing openness and transparency. Its design seeks to engage respectfully with the natural and urban environment while providing its residents with an elevated living experience, constantly connected to the sweeping ocean views.

The ground floor, dedicated to parking and storage, serves as a solid base upon which the upper structure rises. The three upper levels encompass generous living spaces that open expansively to the outside through large glass surfaces made of Low-E glass, a material selected both for its thermal efficiency and its ability to enhance views without compromising interior comfort. The glass, along with dark bronze framing, lends a light yet elegant appearance, seamlessly integrating the residence with its coastal surroundings.

A defining feature of the design is the use of prominent cantilevers, which cast deep shadows over the terraces, providing protection from the tropical sun. This interplay of shadow and transparency accentuates the relationship between interior and exterior spaces, creating transitional zones that connect with the surrounding vegetation. The cantilevered terraces, together with the rooftop viewing terrace, act as observation platforms, allowing residents to fully enjoy the ocean views while reinforcing the sense of openness that defines the home.

In terms of materials, the project adopts a sober, neutral palette that harmonizes with the natural and architectural context of Hollywood. Travertine stone is applied to specific areas of the façade, evoking a materiality that connects with the Mediterranean tradition and the natural textures of the environment. Complementing this, light gray stone is used in details that add contrast and depth, while the white stucco with a sand finish brings a luminous and tactile quality to the exterior. The use of natural wood in select elements introduces warmth and a human touch, while preserving the contemporary and minimalist character of the residence.

Lush tropical vegetation surrounds the home, softening the transition between the structure and the landscape, reinforcing the notion of living in a coastal paradise. The selected trees and plants not only enhance the immediate environment but also play a vital role in creating microclimates, filtering sunlight, and promoting natural ventilation.

This residence is designed to offer all modern comforts to its inhabitants without disrupting the harmony of the existing architectural fabric in the area. The project respects the scale and architectural language of the local context, while its materiality and volumetric design ensure a harmonious integration with its surroundings, creating a respectful dialogue between the historic and contemporary architecture of Hollywood.

# 501 S SURF ROAD RESIDENCE

501 S SURF ROAD. HOLLYWOOD, FL 33019

#### LEGAL DESCRIPTION

LOTS 1 AND 2, BLOCK 13 OF "HOLLYWOOD BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 27, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

Property ID: 514213012870

Site Area: 6,376 SF (0.14 acres)

## **ARCHITECTURE**

A-3.2

A-3.3

A-3.4

A-3.5

COVER A-0.0 RENDERING A-R.1 A-R.2 RENDERING **AERIAL RENDERING** A-R.3 A-R.4 **AERIAL RENDERING** A-1.1 SITE PLAN, SITE DATA & PROJECT INFO A-1.2 **CONTEXT SITE PLAN & PROJECT DESCRIPTION** A-1.3 AREA DIAGRAM COLOR PHOTOGRAPHS SUBJECT SITE & ADJACENT PROPERTIES A-1.4 A-2.1 **GROUND FLOOR** SECOND FLOOR A-2.2 A-2.3 THIRD FLOOR A-2.4 **FOURTH FLOOR ROOF TERRACE ROOF PLAN** NORTH ELEVATION

# **ARCHITECT**

JOSEPH B. KALLER AND ASSOCIATES, P.A. CONTACT: Mr. JOSEPH B. KALLER
ADDRESS: 2417 HOLLYWOOD BLVD. HOLLYWOOD, FL 33019
PHONE: (954)-920-5746
FAX: (954)-926-2841

**WEST ELEVATION** 

**EAST ELEVATION** 

STREET PROFILE

SOUTH ELEVATION

joseph@kallerarchitects.com



**EMAIL**:



www.kallerarchitects.com

JOSEPH B. KALLER FLORIDA R.A. # 0009239

501 S SURF RD RESIDENCE HOLLYWOOD, FL. 33019

MEETING DATES

BOARD/ COMMITE DATE DESCRIPTION

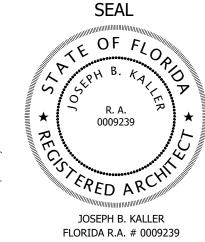
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DESIGNER: REVISED BY:

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NOTE: ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

### NOTE:

Concrete Driveways on private property will be 5-inch thick, 3,000 PSI with fiber mesh while the portion of the driveway located within the ROW (Outside of the property lines) will be a minimum of 6 inches thick, 3,000 psi, with no metal or fiber mesh and will be constructed flush with the existing roadway and sidewalk. The entire driveway will maintain control joints located every 250 sq.ft and the existing asphalt in the City ROW will be sawcut for a clean straight edge.

## NOTE:

Proposed bottom of A/C unit shall be elevation to match BFE + 1 ' FFE = 11' + 1' = 12' NAVD88

#### NOTE:

All alleys and streets abutting the property are to be restored and resurfaced.

# NOTE:

Noise level of any operating mechanical equipment must comply with the City Code.

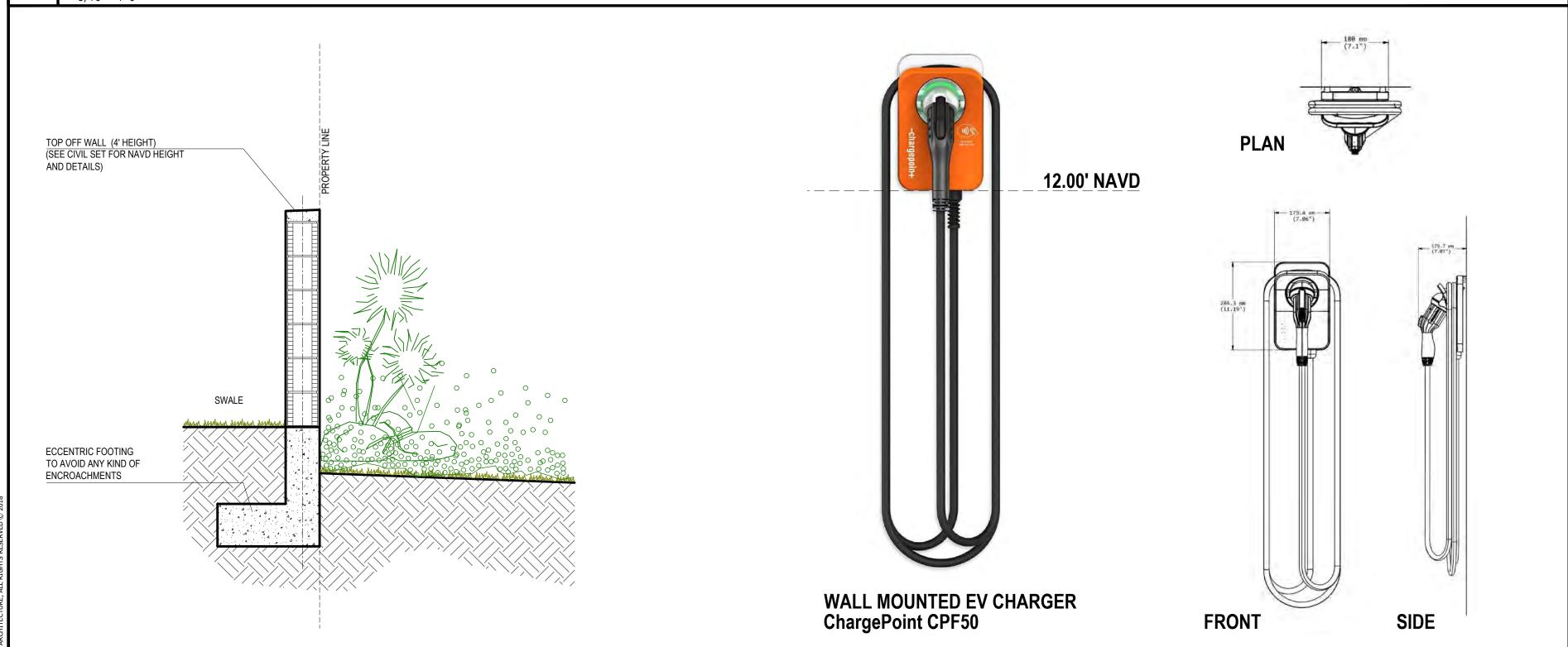
# NOTE:

Paver driveways require a minimum  $2\frac{3}{8}$ " inch pavers placed over a  $1\frac{1}{2}$ " sand base and compacted subbase. In addition to a Minimum 6-inch edge restraint (concrete border) is required around perimeter to interlock pavers. The driveway is to be constructed flush with the existing roadway and the existing asphalt in the City ROW will be sawcut for a clean straight edge.

#### NOTE:

FDEP approval will be required for disposition of existing fill currently on site.

SITE PLAN 3/16" = 1'-0"



# 501 S SURF RD HOLLYWOOD, FL 33019

#### LEGAL DESCRIPTION

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Property ID: 514213012870 6,376 SF (0.14 acres) Site Area:

# **ZONING INFO**

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BAS	C	70	)NI	IN(	G

BWK-25-HD-R Zone:

**Broadwalk Historic District Residential** 

**Existing Building Use: RESIDENTIAL - VACANT LAND** 

Residential **Existing Land Use:** 

#### **BUILDING INTENSITY**

**Maximum Lot Coverage:** N/A **Maximum Building Height:** 40 ft **Maximum Height - Stories:** N/A Floor Area Ratio:

## **BUILDING BASE SETBACK (up to 25' height):**

**Cross Streets:** 10.00 ft 5.00 ft **Broadwalk:** Surf Road: 5.00 ft

**Interior Side:** Sum of interior side setbacks

width; 10 feet minimum.

# **BUILDING TOWER SETBACK:**

20.00 ft **Cross Streets: Broadwalk:** 15.00 ft 15.00 ft **Surf Road:** 10.00 ft **Interior Side:** 

#### Lot width shall be measured along Surf Road.

Cross Street, Broadwalk, and Surf Road building tower setbacks may match building base setbacks for up to 40% of the site frontage.

Balcony Encroachments 25% of the required setback or 6'-0" Max.

**FEMA** 

Proposed (effective July 31, 2024) VE: 11 Feet

#### **FENCES AND WALLS:**

Residential Zone.

Front yard area: 4 ft. Side yard area: 6 ft. Rear yard area: 6 ft.

#### PARKING REQUIREMENT

2 parking spaces for the first 2000 sq.ft. of under air living area. Then one stall every 500 SF with a cap at 5

PARKING REQUIRED:	5 SPACES
PROVIDED:	5 SPACES

ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL

PROJECT INFO

Maximum Building Height:

Allowed: 40 ft (4 Stories) Proposed:

BUILDING BASE SETBACK (up to 25' height):

**Cross Streets:** 

Proposed:

10.00 ft Minimum:

10.00 ft

**Broadwalk:** 

5.00 ft Minimum: Proposed: 5.00 ft

Surf Road:

Minimum: 5.00 ft 5.00 ft Proposed:

Interior Side:

10.00 ft Minimum: 10.00 ft Proposed:

#### **BUILDING TOWER SETBACK:**

#### **Cross Streets:**

20.00 ft Minimum:

20.00 ft (60%) Proposed: 10.00 ft (40% matching

building base setback)

#### **Broadwalk:**

15.00 ft Minimum: 15.00 ft (60%) Proposed:

5.00 ft (40% matching

building base setback)

#### Surf Road:

15.00 ft Minimum: 15.00 ft (60%) Proposed:

> 5.00 ft (40% matching building base setback)

**Interior Side:** 

10.00 ft Minimum: 10.00 ft Proposed:

4 ft Proposed:

#### **OPEN SPACE - PERVIOUS AREA:**

20% (1,275.2 ft<sup>2</sup>) **Minimum Required:** 28% (1,791 ft<sup>2</sup>) Proposed:

> A/C TABLE SHEDULE GROUND FLOOR: 524 ft<sup>2</sup>

SECOND FLOOR: 2,900 ft<sup>2</sup> THIRD FLOOR: 2,978 ft<sup>2</sup>

FOURTH FLOOR: 2,978 ft<sup>2</sup> **ROOF TERRACE:** 

TOTAL A/C AREA: 9,881 ft<sup>2</sup>

SHEET

PROJECT No .:

DESIGNER: **REVISED BY:** 

**Kaller** Architecture

AA# 26001212 2417 Hollywood Blvd.

Hollywood Florida 33020

954.920.5746

joseph@kallerarchitects.com

www.kallerarchitects.com

**SEAL** 

FRED AR'

501 S SURF RD RESIDENCE HOLLYWOOD, FL. 33019

MEETING DATES

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02.05.25

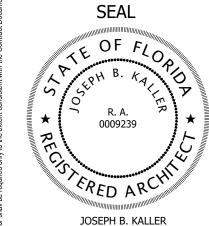
DATE DESCRIPTION

JOSEPH B. KALLER

FLORIDA R.A. # 0009239

PROJECT INFO

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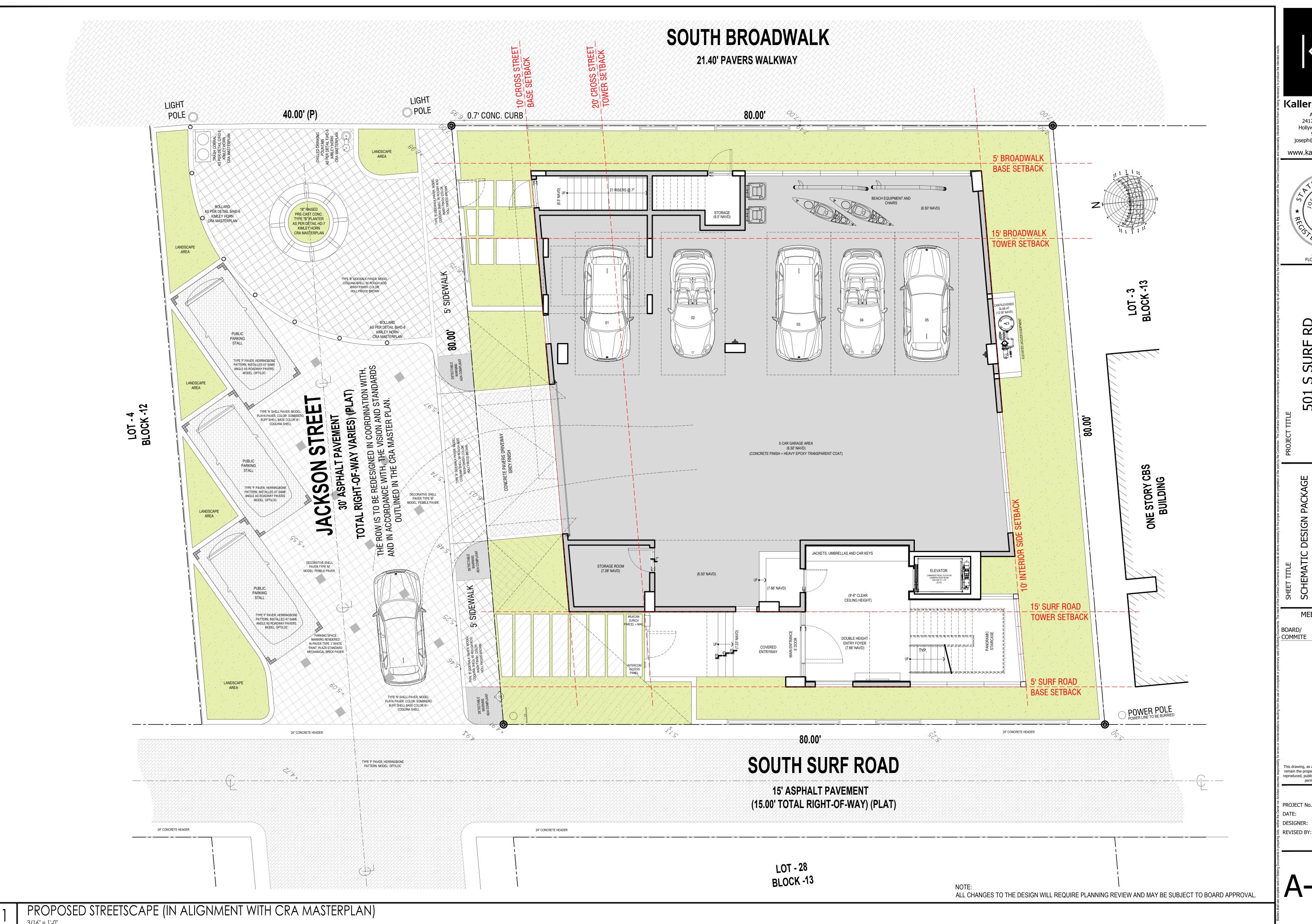
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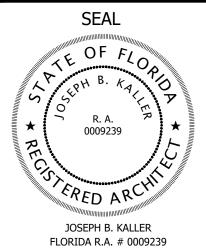
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501 S SURF RD RESIDENCE

**MEETING DATES** 

BOARD/
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VIEW FROM S. BROADWALK



301 OREGON ST. HOLLYWOOD FL. 33019

VIEW FROM OREGON ST.

301 OREGON ST. HOLLYWOOD FL. 33019

VIEW FROM S. SURF RD.

511 S. SURF RD. HOLLYWOOD FL. 33019

301 OREGON ST. HOLLYWOOD FL. 33019

VIEW FROM S. BROADWALK

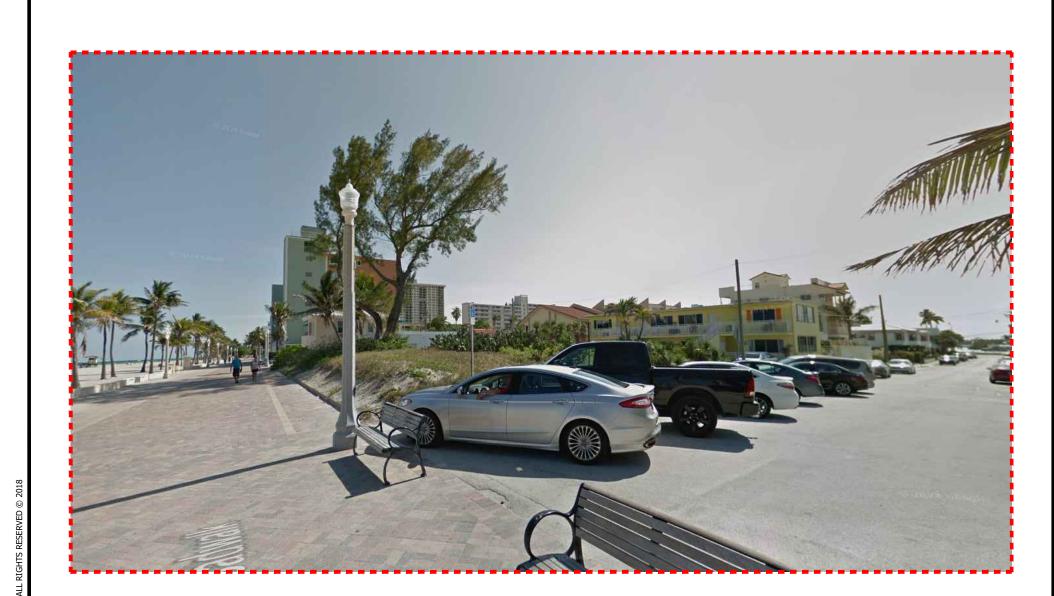


511 S. SURF RD. HOLLYWOOD FL. 33019

VIEW FROM S. SURF RD.

501 S. SURF RD. HOLLYWOOD FL. 33019

VIEW FROM S. SURF RD / JACKSON ST.



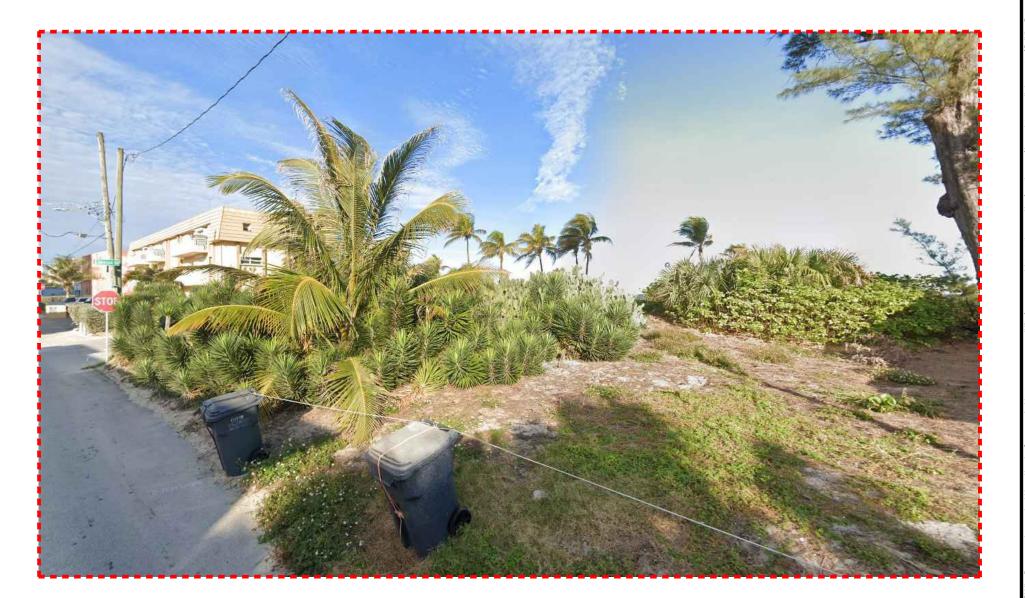
501 S. SURF RD. HOLLYWOOD FL. 33019

VIEW FROM S. BROADWALK / JACKSON ST.



501 S. SURF RD. HOLLYWOOD FL. 33019

VIEW FROM S. BROADWALK



501 S. SURF RD. HOLLYWOOD FL. 33019

VIEW FROM S. SURF RD.



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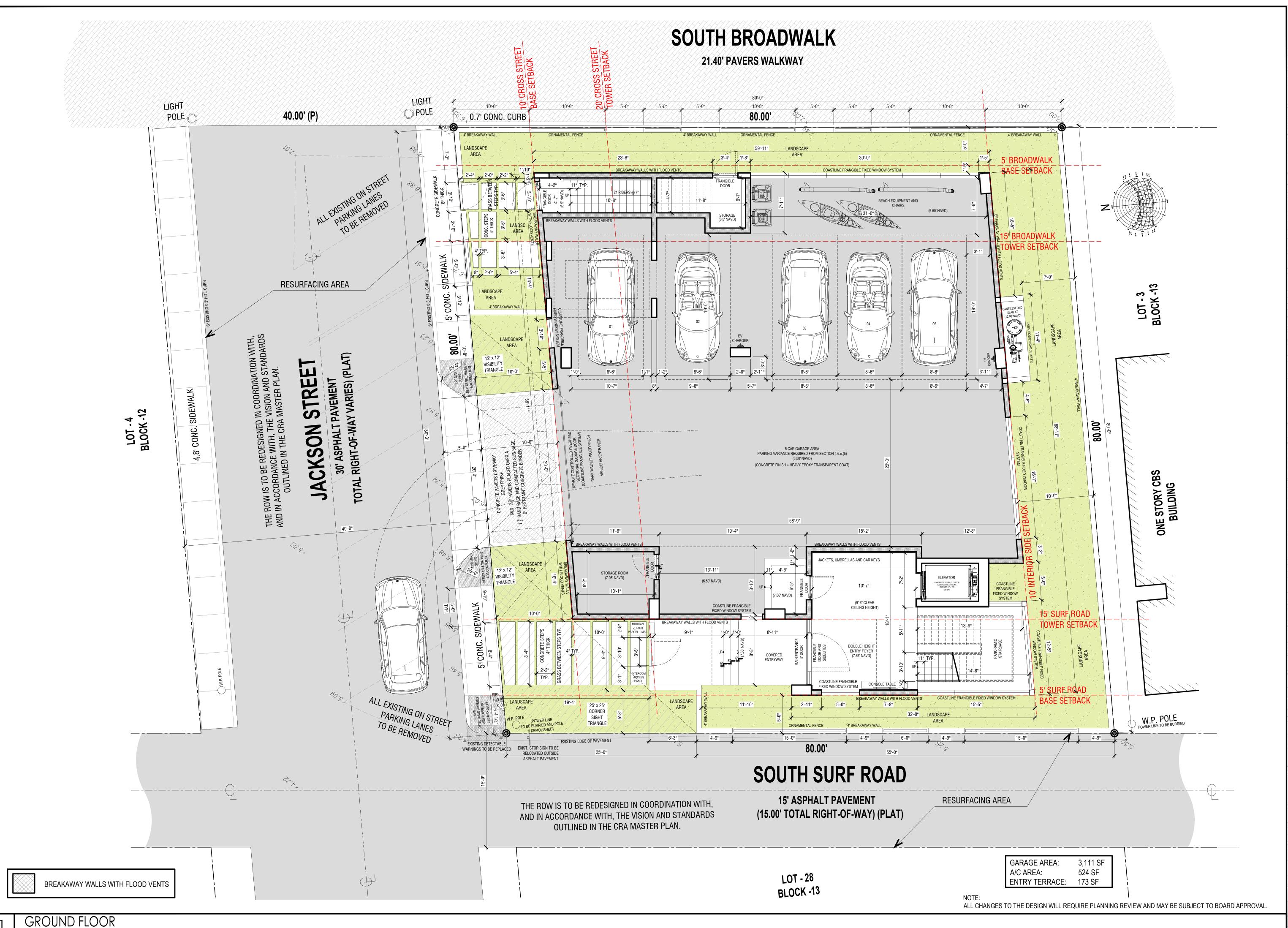
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MEETING DATES

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COLOR PHOTOGRAPHS OF SUBJECT SITE AND ADJACENT PROPERTIES

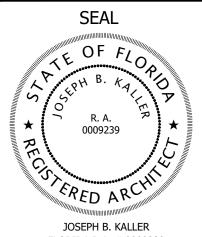


3/16" = 1'-0"



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FLORIDA R.A. # 0009239

501 S SURF RD RESIDENCE

**MEETING DATES** 

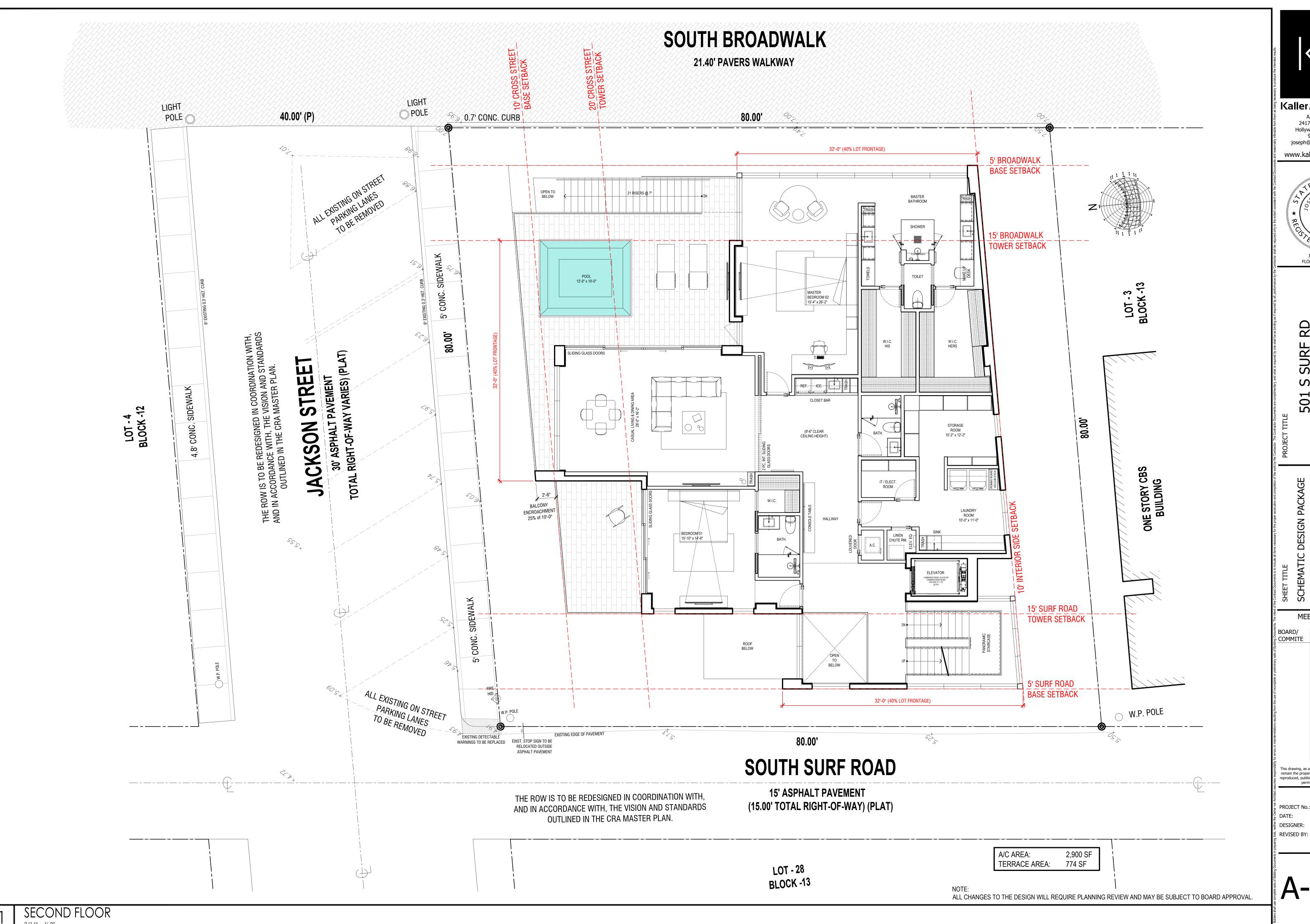
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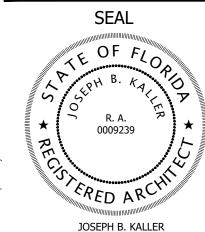
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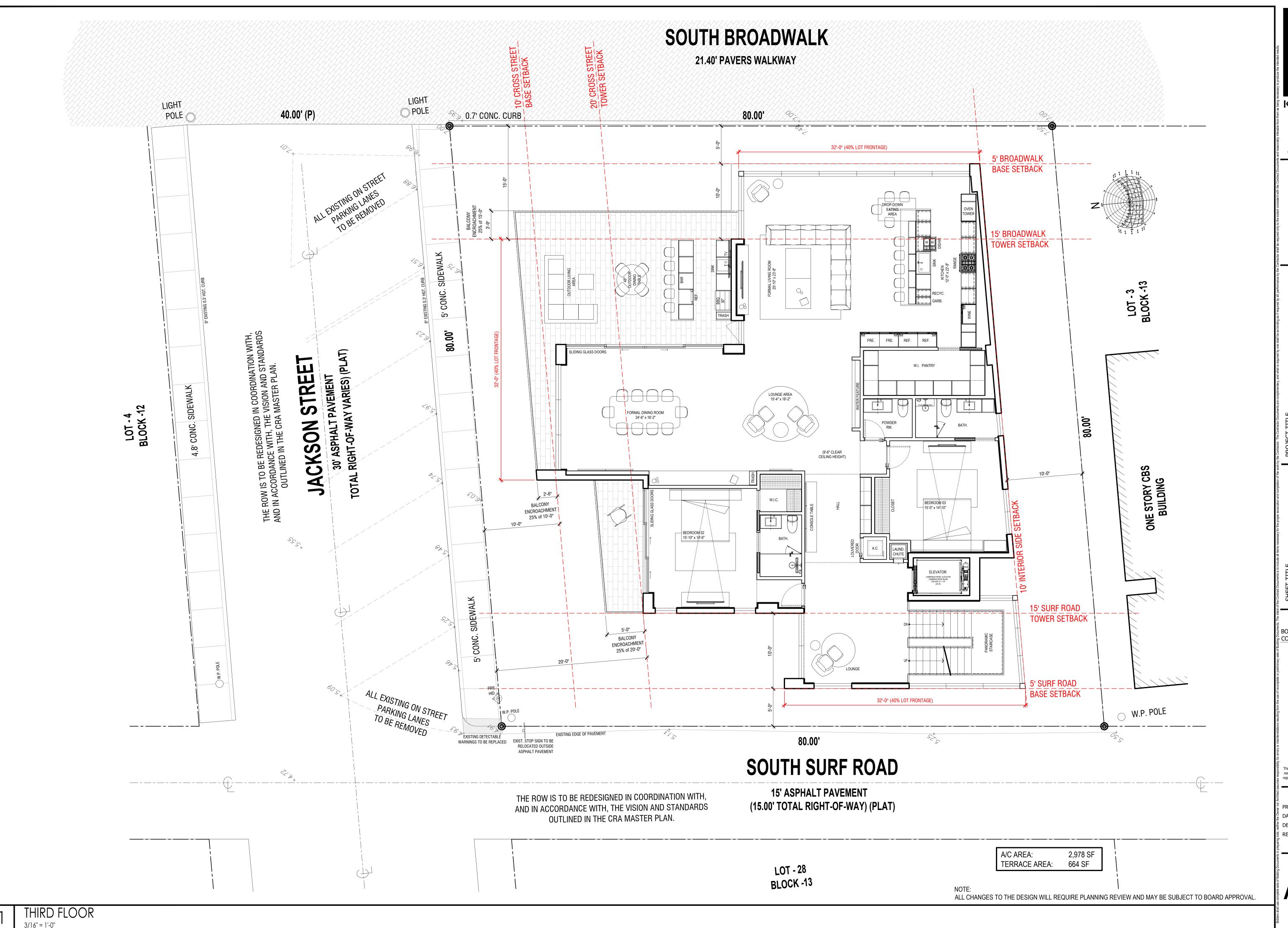
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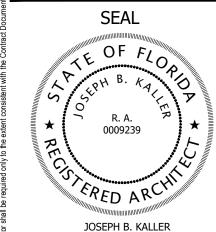
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501 S SURF RD RESIDENCE HOLLYWOOD, FL, 33019

IEMATIC DESIGN PACKAGE
RD FLOOR

MEETING DATES

BOARD/ COMMITE DESCRIPTION

DATE DESCRIPTION

DESCRIPTION

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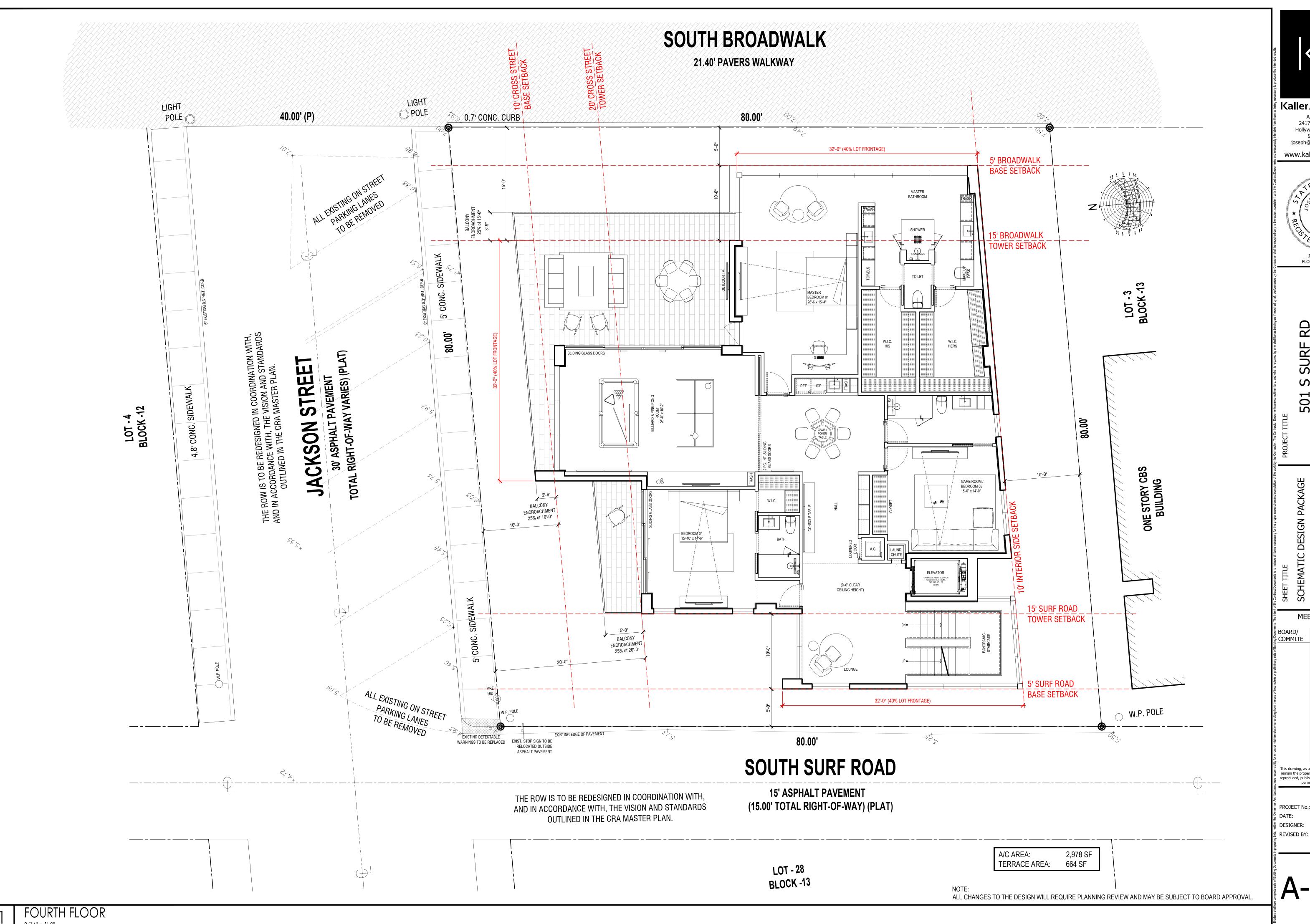
PROJECT No.: 24217

DATE: 02.05.25

DESIGNER: SCHIFFINE REVISED BY: JBK

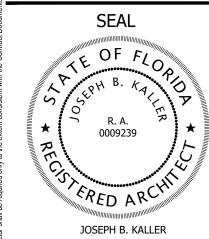
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A-2.3





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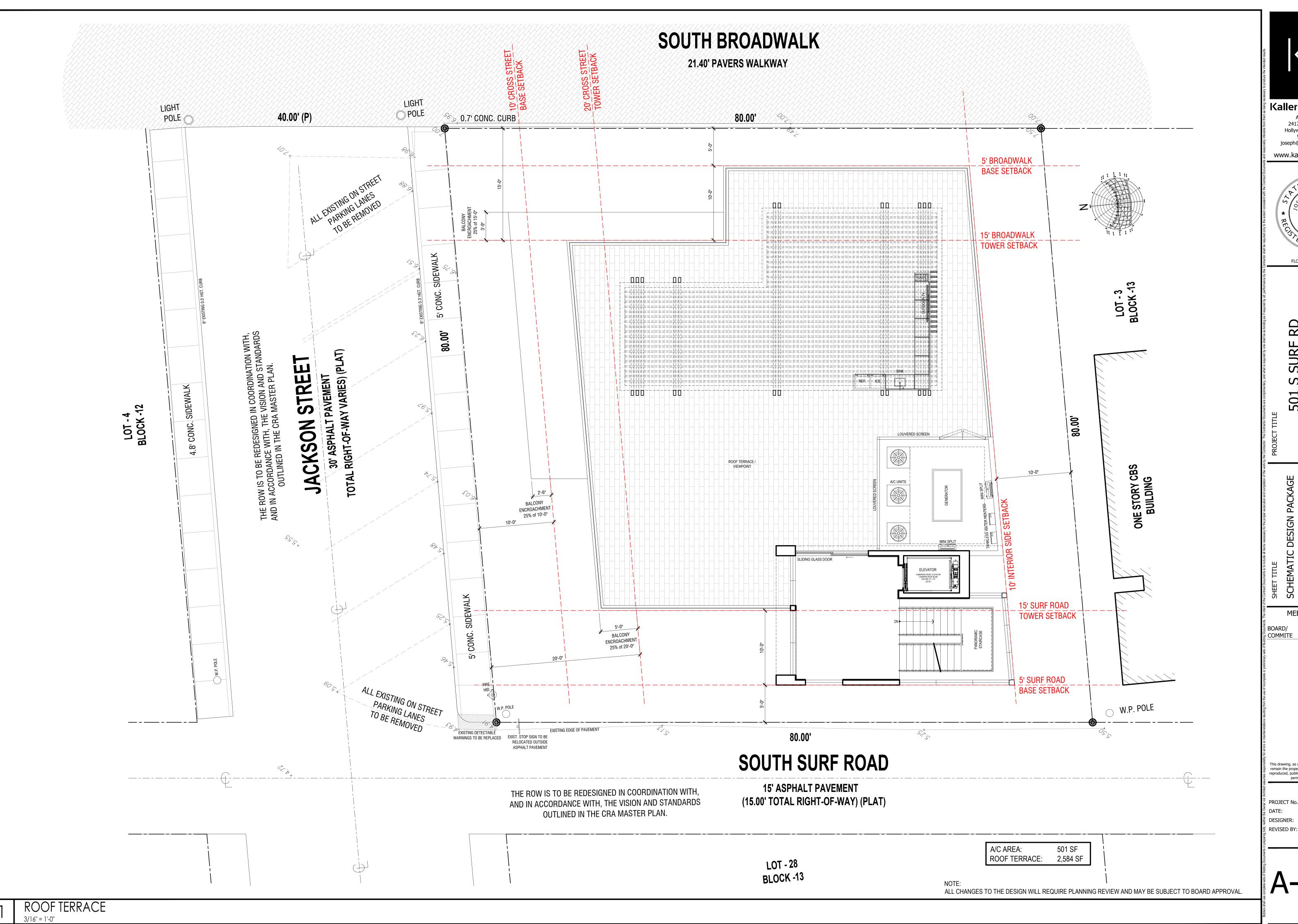
501 S SURF RD RESIDENCE HOLLYWOOD, FL. 33019

MEETING DATES

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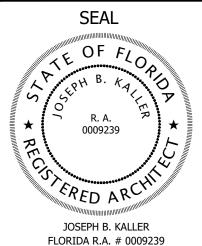
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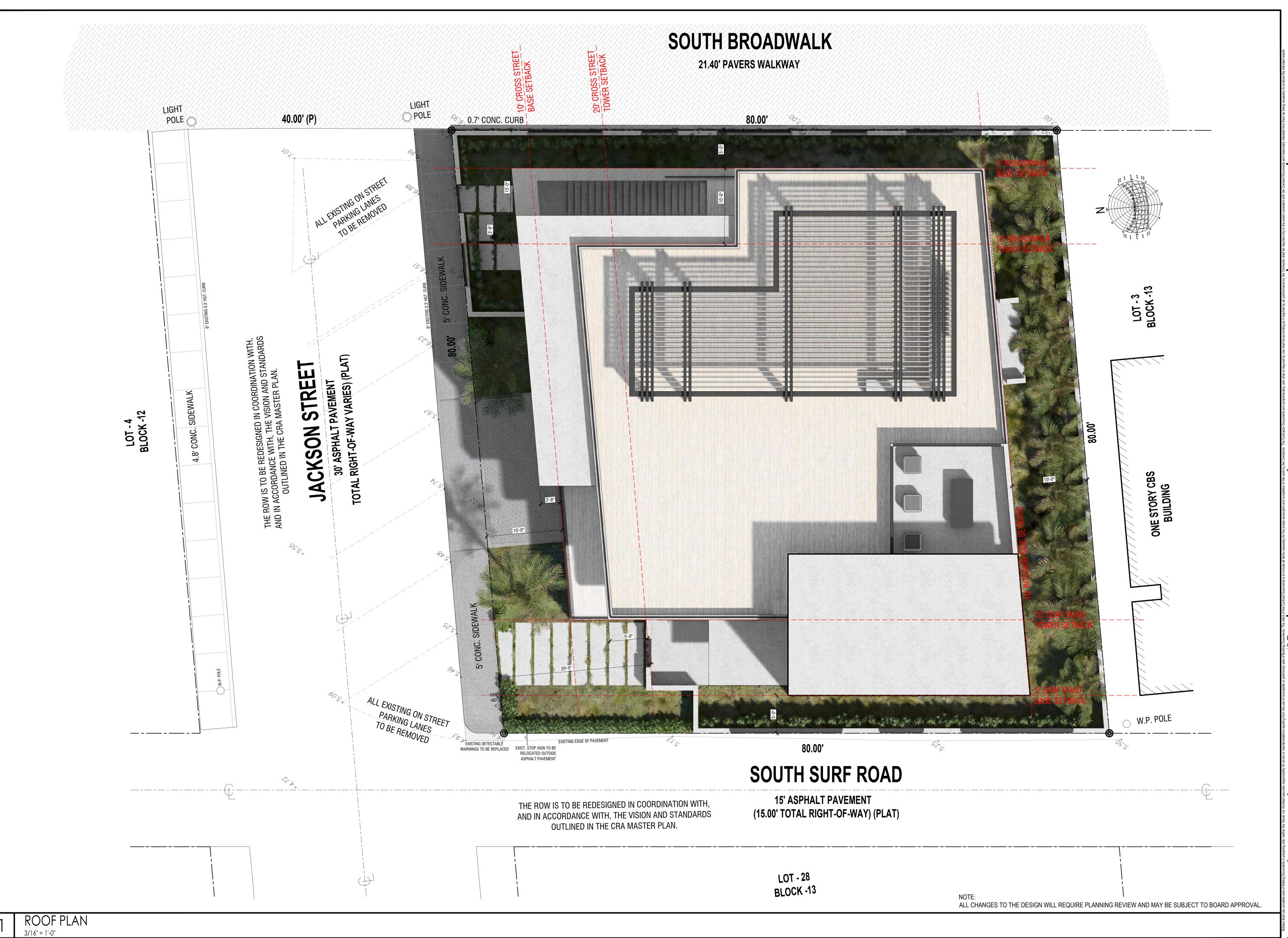
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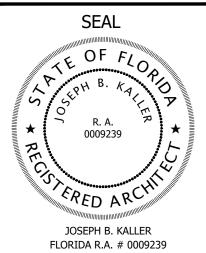
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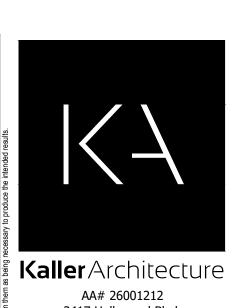
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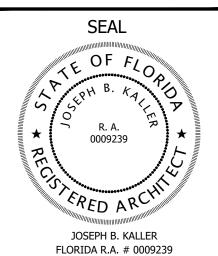
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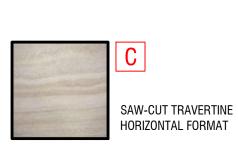
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PROJECT No.: 24217 02.05.25 SCHIFFINO DESIGNER: REVISED BY:

SHEET

LIGHT SAND TEXTURE STUCCO COLOR: PURE WHITE SW 7005

















**GREY CLADDING** 

REF. FOIL TITANIUM

CERAMICHE REFIN SPA

IPE WALL CLADDING AND

EXTERIOR CEILINGS

GREY CLADDING

REF. FOIL BURNISH

CERAMICHE REFIN SPA

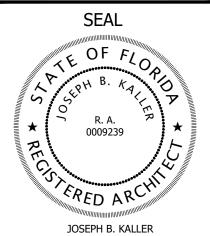
WOOD FINISH

DARK WALNUT

POWDER COATED ALUMINUM

AA# 26001212
2417 Hollywood Blvd.
Hollywood Florida 33020
954.920.5746
joseph@kallerarchitects.com

www.kallerarchitects.com



JOSEPH B. KALLER FLORIDA R.A. # 0009239

RESIDENCE

SCHEMATIC DESIGN PACKAGE WEST ELEVATION

MEETING DATES

BOARD/
COMMITE DATE DESCRIPTION

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permission of the Architect.

PROJECT No.: 24217

DATE: 02.05.25

DESIGNER: SCHIFFINO

REVISED BY: JBK

CLEAR LOW-E GLASS

ALUMINUM

UC105262 ESW

DURANAR BERMUDA BRONZE

ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

CORROSION-RESISTANT HARDWARE

SHEET

A-3.2

WEST ELEVATION
3/16" = 1'-0"

LIGHT SAND TEXTURE STUCCO

COLOR: PURE WHITE SW 7005

LIGHT SAND TEXTURE STUCCO

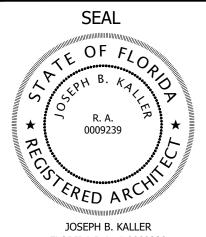
COLOR: WEB GRAY SW 7075

SAW-CUT TRAVERTINE

HORIZONTAL FORMAT



www.kallerarchitects.com



JOSEPH B. KALLER FLORIDA R.A. # 0009239

MEETING DATES

BOARD/
COMMITE DATE DESCRIPTION

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PROJECT No.: 24217 DESIGNER: REVISED BY:

SOUTH ELEVATION 3/16" = 1'-0"

LIGHT SAND TEXTURE STUCCO

COLOR: PURE WHITE SW 7005

LIGHT SAND TEXTURE STUCCO

COLOR: WEB GRAY SW 7075

SAW-CUT TRAVERTINE IPE WALL CLADDING AND HORIZONTAL FORMAT EXTERIOR CEILINGS

**GREY CLADDING** REF. FOIL TITANIUM CERAMICHE REFIN SPA

GREY CLADDING REF. FOIL BURNISH CERAMICHE REFIN SPA WOOD FINISH POWDER COATED ALUMINUM DARK WALNUT

ALUMINUM DURANAR BERMUDA BRONZE UC105262 ESW CORROSION-RESISTANT HARDWARE

ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

**CLEAR LOW-E GLASS** 



**GREY CLADDING** 

REF. FOIL TITANIUM

CERAMICHE REFIN SPA

IPE WALL CLADDING AND

EXTERIOR CEILINGS

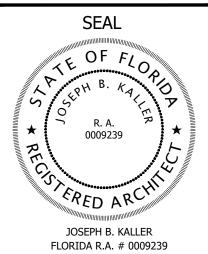
GREY CLADDING

REF. FOIL BURNISH

CERAMICHE REFIN SPA

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**o** 

501 S SURF RD RESIDENCE

PACKAGE PROJECT

HEEL LILLE SCHEMATIC DESIGN PACKA EAST ELEVATION

MEETING DATES

BOARD/
DATE DESCRIPTION

MITE DATE DESCRIP

awing, as an instrument of service, is and shall

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PROJECT No.: 24217
DATE: 02.05.25

DATE: 02.05.25
DESIGNER: SCHIFFINO
REVISED BY: JBK

SHEET

A-3.4

CLEAR LOW-E GLASS

ALUMINUM

UC105262 ESW

DURANAR BERMUDA BRONZE

ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

CORROSION-RESISTANT HARDWARE

WOOD FINISH POWDER COATED ALUMINUM

DARK WALNUT

LIGHT SAND TEXTURE STUCCO

COLOR: PURE WHITE SW 7005

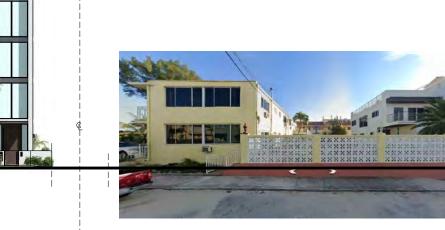
LIGHT SAND TEXTURE STUCCO

COLOR: WEB GRAY SW 7075

SAW-CUT TRAVERTINE

HORIZONTAL FORMAT











340 JACKSON ST





505 S OCEAN DR

344 JACKSON ST



S OCEAN DR

MEETING DATES

**Kaller** Architecture

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www.kallerarchitects.com

JOSEPH B. KALLER FLORIDA R.A. # 0009239

BOARD/
COMMITE DATE DESCRIPTION

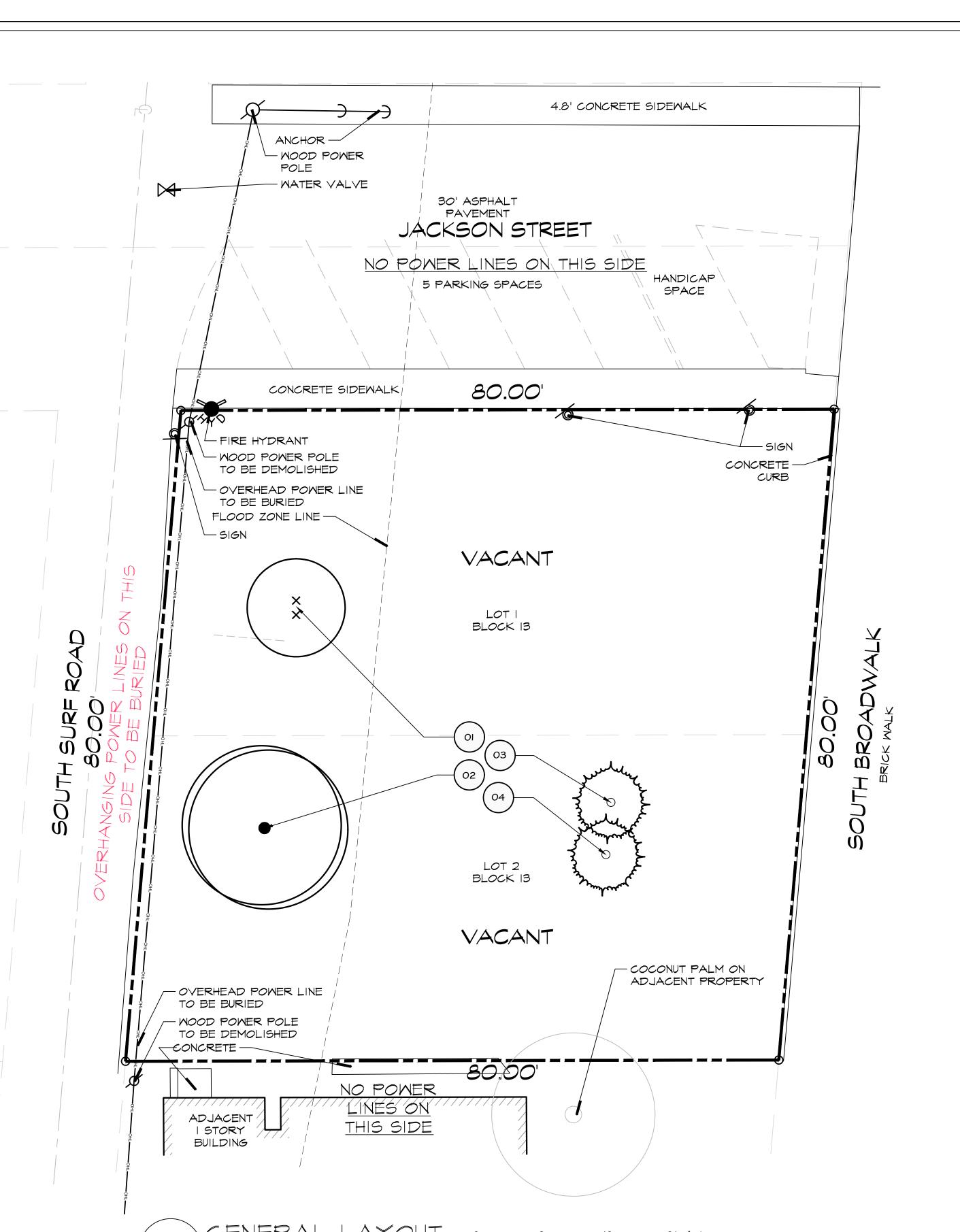
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PROJECT No.: 24217 02.05.25 SCHIFFINO DESIGNER: REVISED BY:

SHEET

ALL CHANGES TO THE DESIGN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

COMPLETE STREET PROFILE (JACKSON ST.)



SCALE: 1/8" = 1'-0"

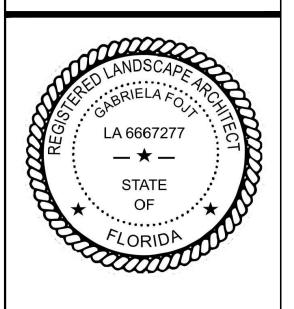
# NO TREE REMOVAL OR PLANTING ALLOWED UNTIL SUBPERMITS ARE FULLY APPROVED BY CITY.

2 CHRISTMAS PALMS PROPOSED FOR MITIGATION .....=\$700.00

NO MITIGATION TO BE PAID FOR MITIGATION

PLANT	SCHI	EDULE							
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	DBH	HEIGHT/CT	CANOPY	CONDITION	NOTES	ACTION
TREES		_		_			_		
××	01	Adonidia merrillii	Manila Palm (double)	N/A	12`CT	12`	Poor		TO BE REMOVED
$\bigcirc$	02	Cocos nucifera	Coconut Palm	N/A	8°CT	20`	Poor		TO BE REMOVED
0	03	Sabal palmetto	Cabbage Palmetto	N/A	6`CT	10`	Fair	NOT QUALIFYING FOR MITIGATION	TO BE REMOVED
0	04	Sabal palmetto	Cabbage Palmetto	N/A	6`CT	10`	Fair	NOT QUALIFYING FOR MITIGATION	TO BE REMOVED





# The Mirror of Paradise

Gabriela Fojt LA 6667277 ISA FL-10207A

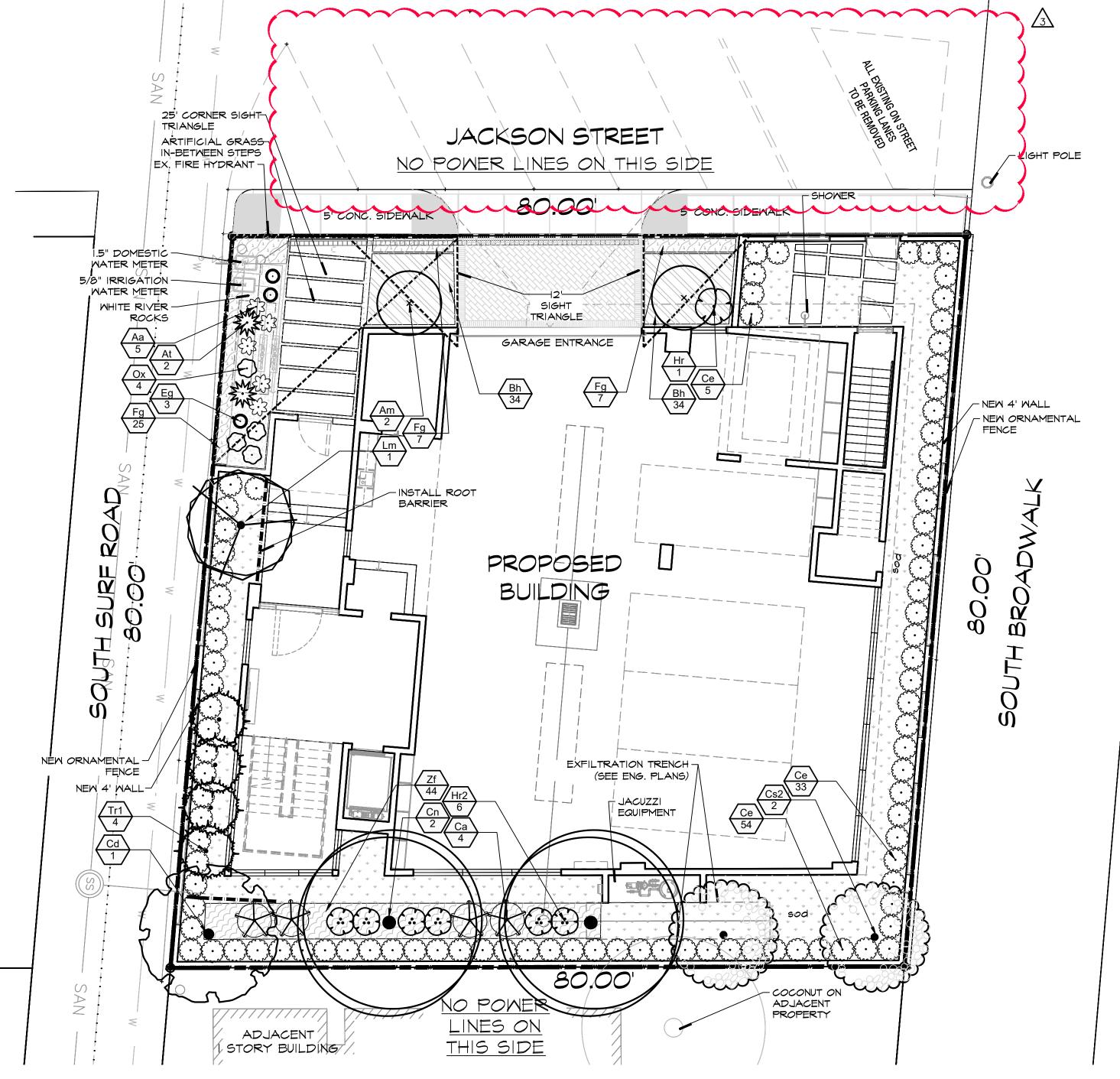
2700 E Oakland Park Blvd Suite C Fort Lauderdale FL 33306 c (954) 478 3064 www.florida-landscape.com gabriela@themirrorofparadise.com



SCALE	1/8"=1'-0"
DESIGNED BY	GF
DRAWN BY	KM,GF
CHECKED BY	GF
CAD DWG.	
DATE	10.07.2024
REVISIONS	
per City comments 1	11.23.2024
per City comments $\sqrt{2}$	12.18.2024
per City comments $\int_3$	02.10.2025

# ACH

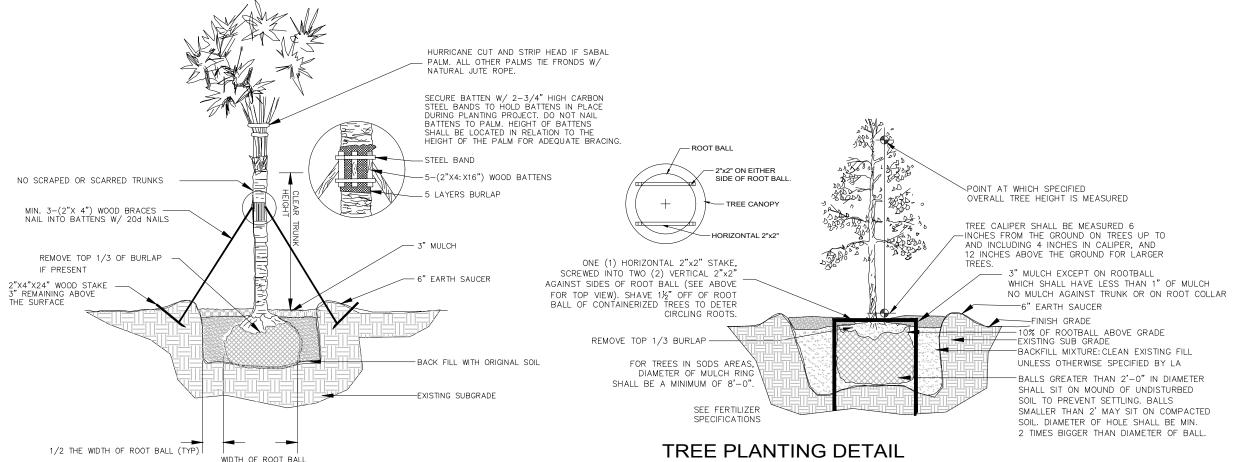
HORIZONTAL CLEARANCE TO UTILITIES, A MINIMUM 5 FT IS REQUIRED FOR SMALL TREES AND 10 FT FOR LARGE TREES WITH INTRUSIVE ROOT SYSTEMS. IF CLEARANCE LESS THAN REQUIRED, INSTALL ROOT BARRIERS (BY DEEPROOT OR EQUIVALENT) MIN.12" FROM UTILITY.



A GENERAL LAYOUT	IF YOU DIG FLORIDA CALL US FIRST! 1-800-432-4770
	SUNSHINE STATE ONECALLING OF FLORIDA, INC.  IT'S THE LAW
SCALE: 1/8" = 1'-0"	NOTE: INDICATED UTILITIES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES ON SITE PRIOR TO COMMENCEMENT OF ANY WORK. LANDSCAPE ARCHITECT ASSUMES NO LIABILITY FOR UTILITY DAMAGE.

PLANT	SCH	EDULI	=					
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NATIVE	DROUGHT RESIST.
TREES		1	T	1	T	1	T	T
$\left(\begin{array}{c} x \end{array}\right)$	Am	2	Adonidia merrillii	Manila Palm	8`CT, sngl, matched	AS SHOWN	NO	HIGH
	Cd	1	Coccoloba diversifolia	Pigeon Plum	min.12`OA, 2"dbh	AS SHOWN	YES	HIGH
$\bigcirc$	Cn	2	Cocos nucifera	Coconut Palm	12'CT, matched	AS SHOWN	NO	HIGH
	Cs2	2	Cordia sebestena	Orange Geiger Tree	min.12`OA, 2"dbh, matched	AS SHOWN	YES	HIGH
	Lm	1	Lagerstroemia	Crape Myrtle	min.12'OA, 2"dbh, std	AS SHOWN	NO	HIGH
0	Tr1	4	Thrinax radiata	Florida Thatch Palm single	8`CT, sngl, matched	AS SHOWN	YES	HIGH
SHRUBS								
£;3	Aa	5	Agave attenuata	Foxtail Agave	3 gal.	AS SHOWN	NO	HIGH
ZWZ ZWZ	At	2	Agave tequilana	Blue Agave	3.OV	AS SHOWN	NO	HIGH
	Са	4	Callicarpa americana	American Beautyberry	4`OA, full	AS SHOWN	YES	HIGH
Kon on the second	Се	92	Conocarpus erectus	Green Buttonwood	5`-6`OA, ftb	30"OC	YES	HIGH
0	Eg	3	Echinocactus grusonii	Golden Barrel Cactus	7 gal	AS SHOWN	NO	HIGH
(:)	Hr2	6	Hibiscus rosa-sinensis	Hibiscus-color tbd by client	24"x24", shrub	AS SHOWN	NO	HIGH
$\bigcirc$	Hr	1	Hibiscus rosa-sinensis	Hibiscus-color tbd by client	4`-5`OA, std	AS SHOWN	NO	HIGH
$\odot$	Ox	4	Opuntia	Prickly Pear	2'OA	AS SHOWN	YES	HIGH
SHRUB AF	REAS							
	Bh	68	Bougainvillea x 'Helen Johnson'	Helen Johnson Compact Bougainvillea	3 gal	18"OC	NO	HIGH
	Fg	39	Ficus microcarpa 'Green Island'	Green Island Indian Laurel Fig	3 gal	18"OC	NO	HIGH
	Zf	44	Zamia floridana	Florida Coontie	3 gal	24"OC	YES	HIGH
GROUND	COVERS							
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Zc	643 sf	Zoysia spp	Zoysia	sod			

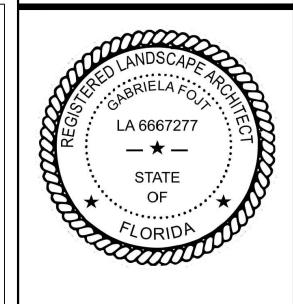
- SOD AS INDICATED. MULCH ALL BEDS AS INDICATED ON DETAIL.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PLANT, SOD AND MULCH AMOUNTS FOR BIDDING PURPOSES.
- 4. PLAN DRAWING TAKES PRECEDENCE OVER ANY QUANTITY SCHEDULES.



PALM PLANTING DETAIL

LANDSCAPE REQUIREMENTS BWK-25-HD-R	Required	Proposed	Total Provided
PERIMETER TREES			
1 tree/each 50 If of street frontage (160'/50'=3.2)	4 trees	Crape Myrtle, 4 Thatch palm (=1 1/3 tree), 2 Adonidia palms (=2/3 tree), 1 Pigeon plur	4 provided
OPEN SPACE			
1 tree/each 1,000 sf of pervious area ( <b>1,745</b> /1,000=1.7)	2 trees	2 Orange Geiger	2 provided
min. 60% of required trees to be native (6 x .5=3.6)	min. 4 native	4 1/3	4 1/3 provided
min. 50% of shrubs to be native (269 x .5=134.5)	min.135	139	52% provided
max. 50% of required trees to be palms (6 x.5=3)	max. 3 trees as palms	2	2 provided (*)
Provide automatic irrigation with 100% of coverage	·	irrigation implant	provided
Sight tringle for corner property			provided

(\*) 2 Christmas palms are not counted for code



The Mirror of Paradise

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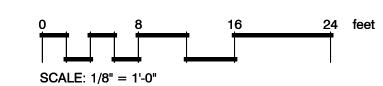
SCALE 1/8"=1'-0" **DESIGNED BY** KM,GF DRAWN BY CHECKED BY CAD DWG. 10.07.2024 REVISIONS 11.23.2024 2 12.18.2024 3 02.10.2025

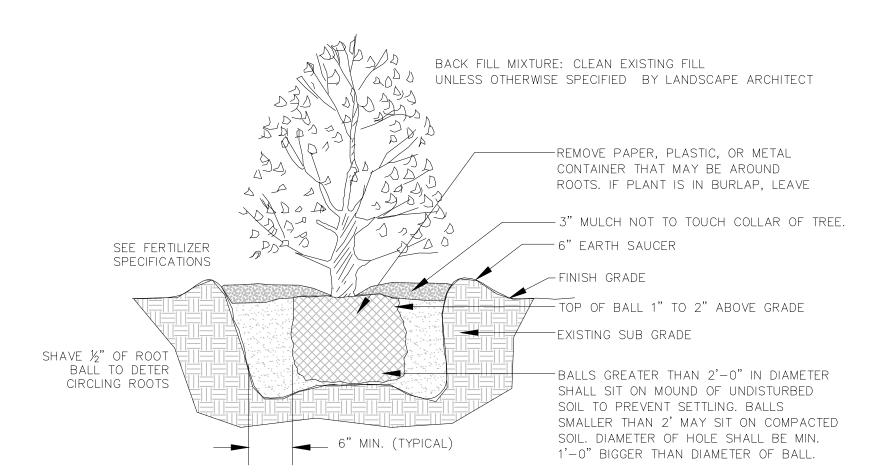
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OD 330 3







SHRUB PLANTING DETAIL

#### JOB CONDITIONS:

Any building construction material or foreign material shall be removed from planting areas and replaced with acceptable top soil.

Care shall be taken not to disturb or damage any underground construction or utilities. Any damage to these facilities during the planting operations will be repaired at the expense of the Landscape Contractor in a manner approved by the Owner. Where underground obstructions will not permit the planting materials in accordance with the plans, new locations shall be approved by the Landscape Architect.

Landscape work shall be coordinated with the landscape irrigation work. Landscape Contractor shall ensure that no plantings will interfere with the proper coverage. Landscape Contractor shall point out situations where minor adjustments or relocation or addition of sprinklers heads may be most beneficial for the landscape work as a whole.

#### PLANT MATERIAL:

Plant species and size shall conform to those indicated on the drawings. Nomenclature shall conform to STANDARDIZED PLANT NAMES, LATEST EDITION. All plant material shall be in accordance with GRADES AND STANDARDS FOR NURSERY PLANTS, latest edition published by the Florida Department Agriculture and Consumer Services. All plants not otherwise specified as Florida Fancy, or Specimen, shall be Florida Grade Number 1 or better as determined by the Florida Grade Plant Industry. Specimen means an exceptionally heavy, symmetrical, tightly-knit plant, so trained or favored in its development that its appearance is unquestionable and outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and shrubs for planting rows shall be uniform in size and shape. All materials shall be subject to approval by the Landscape Architect. Where any requirements are omitted from the Plant List, the plants furnished shall be normal for the variety.

All container grown material shall be healthy, vigorous, well-rooted plants and established in the container. The plants shall have tops which are good quality and are in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container long enough for the new fibrous roots to have developed enough to hold the root mass together when removed from the container. Root bound plants will not be accepted.

Site water shall be verified by Contractor prior to submission of bids.

The use of natural material is strongly encouraged for balled and burlapped plants. All synthetic material shall be completely removed from root ball PRIOR to planting.

At time of bid, Contractor shall submit a written schedule of all sources for coconut palms as well as seed sources for coconuts. Coconuts shall be certified Malayan Green with a certified seed source from Jamaica.

#### TREES:

The most critical factor for selecting a healthy Florida Number 1 tree is the structure. This consists of one central main trunk and leader. Branches are considered competing if they are 2/3 the diameter of the leader or greater. Competing branches may be acceptable if they occur above 50% of the overall height of the tree. Caliper of tree should meet specifications. Leader (center trunk) may have slight (<15 degree) bow (Tabebuia caraiba excluded), but must be intact with apical (leading) bud.

Branches should be spread evenly (staggered, alternating) through the tree branches spaced no closer than 4".

Canopy should be full to specifications with little or no openings or holes. A thinning canopy will be taken into consideration with field dug plant material.

Trees should have no open wounds or damage, flush cuts, chlorosis, shorter or taller than specified height, girdling roots, undersize loose root ball, crossing branches, smaller than normal leaves.

10% of root ball shall be above grade after planting. Root ball tying ropes removed from trunk and top of root ball.

#### MULTIPLE TRUNK TREES

Trees having no distinct leader. Trunks on these trees should not be touching and free of damage and similar in size. Canopy should be full and uniform.

#### MATERIALS LIST

Landscape Contractor shall be responsible for verifying all quantities for material shown on drawings prior to submitting a bid. Planting plan shall take precedence over the plant list. Final quantity of sod and mulch shall be verified.

### SUBSTITUTIONS:

COARSE SAND, ROCKS LARGER THAN 2", LUMPS, STICKS OR ANY OTHER DEBRIS.

4. FERTILIZER SHALL BE 12-12-12, 50% ORGANIC OR SLOW RELEASE NITROGEN.

ACCEPTED BY THE CITY, TREES SHALL BE GUARANTEED FOR ONE (1) YEAR.

CONTRACTOR SHALL CONFIRM PLANT QUANTITIES PRIOR TO BIDDING.

MAINTAIN AND REPAIR IRRIGATION SYSTEM AS REQUIRED.

12. IRRIGATION SYSTEM SHALL ALSO BE EQUIPPED WITH RAIN SENSOR

g. REMOVE STAKES AND GUYS AT THE END OF THE MAINTENANCE PERIOD.

INSECT AND DISEASE CONTROL AS REQUIRED.

2. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER

DATE OF SUBSTANTIAL COMPLETION.

1. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS AND FREE FROM DISEASES, INSECTS EGGS, AND SHALL HAVE A

3. ALL PLANTING SOIL AND TOP SOIL SHALL CONSIST OF 30% MUCK, 70% SAND, AND SHALL BE FREE OF HEAVY CLAY,

6. ALL PLANT MATERIALS EXCEPT TREES SHALL BE GUARANTEED FOR 180 DAYS AFTER THE COMPLETED PROJECTS IS

8. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF LANDSCAPE AREA AND PLANTS FOR 90 DAYS STARTING ON THE

9. MULCH SHALL BE EUCALYPTUS GRADE A OR BETTER, USE OF CYPRESS BARK MULCH IS PROHIBITED IN THE PUBLIC

10. THE ESTABLISHMENT PERIOD SHALL BEGIN AT THE TIME OF ACCEPTANCE OF INSTALLATION OF PLANTING AND

a. SUPPLY WATER IN SUFFICIENT AMOUNTS REQUIRED TO INSURE ESTABLISHMENT AND GOOD GROWTH FOLLOWING

11. ALL SOD AND LANDSCAPE SHALL RECEIVE 100% COVERAGE FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN

INDUSTRY STANDARDS. WATERING SCHEDULE MAY BE INTERRUPTED DURING PERIODS OF HEAVY RAINFALL (0.50" OR

IRRIGATION, AND EXTEND FOR 90 DAYS PAST THAT DATE, AND SHALL INCLUDE THE FOLLOWING ACTIVITIES:

b. STRAIGHTEN TREES AND PALMS AS REQUIRED (INCLUDING RE-GUYING AND RE-STAKING AS REQUIRED).

TERRA—SORB OR APPROVED EQUAL SHALL BE PROVIDED ACCORDING TO MANUFACTURER'S RECOMMENDATION.

SUBSTITUTIONS SHALL BE PERMITTED WITHOUT A WRITTEN PERMISSION FROM THE CITY OF HOLLYWOOD.

HEALTHY NORMAL ROOT SYSTEM, FURNISHED IN THE MINIMUM SIZES INDICATED IN THE SCHEDULE. NO

**LANDSCAPE NOTES:** 

RIGHT-OF-WAY.

MORE PER DAY).

c. WEEDING IS REQUIRED.

MOWING EVERY 21 DAYS.

APPROVED WATER SOURCE.

No substitutions shall be made without the approval from the Landscape Architect and/or the Owner. Intended substitutions shall be indicated on the bid.

#### MEASUREMENTS:

Canopy Trees- Height shall be measured from the ground to the average height of canopy. Spread shall be measured to the end of branching equally around the crown from the center of the trunk. Caliper (d.b.h.) will be measured 4'-6" above grade.

Shrubs- Height shall be measured from the ground. Spread shall be measured to the end of branching equally

around the shrub mass.

Palms- Clear trunk (C.T.) shall be measured from the ground to the point where the mature aged trunk joins the immature or green part of the trunk or head.

Overall height (O.A.) shall be measured from the ground to the tip of the unopened bud.

#### IRRIGATION:

100% irrigation coverage shall be provided. Provide bubblers on separate zones for all newly planted and transplanted trees unless alternate approach to provide additional water is approved by Owner and Landscape Architect.

#### GUARANTEE:

All new plant materials shall be guaranteed for one year from the time of acceptance and shall be alive and in satisfactory growth for each specific kind of plant at the end of the guarantee period. The Landscape Contractor shall not be responsible for damage caused by vandalism, violent wind storms or other acts of God beyond control. Replacement shall occur within two weeks of rejection and guaranteed six months from date of installation. Landscape Contractor shall repair damage to other plants or lawns during plant replacements at no additional cost.

#### MULCH:

Mulch shall not contain sticks 1/4" in diameter or stones. Apply 3" of mulch except on top of tree rootballs and against woody shrubs. Rootballs will receive less than 1" mulch with no mulch touching trunk or root collar. Do not apply mulch against the trunks of woody shrubs.

#### SOD:

All sod shall be installed in such a manner that there is an even surface, staggered pattern. Sod will be green in color and in good health. NO overlap, gaps, damage, insects, disease and less than 10% chlorosis will be permitted. All gaps will be filled with clean native soil. STAKING:

Landscape Contractor to suggest alternate means of staking for approval with Landscape Architect if staking methods shown are not feasible due to site conditions.

#### FERTILIZER:

Manufacturer's Specification: Submit manufacturer's specification sheet(s) for approval of product. Submit tags from bags of fertilizer used on site to the Architect. Submit copies of the manufacturer's specifications or analysis of all fertilizer for approval.

Composition and Quality: All fertilizer shall be uniform in composition and dry. Granular fertilizer shall be free flowing and delivered in unopened bags. Tablet fertilizer shall be delivered in unopened containers or boxes. All bags, containers or boxes shall be fully labeled with the manufacturer's analysis.

Fertilizer shall be slow release with ratio greater than 3 to 1 nitrogen to phosphorous applied on top of backfill, per manufacturer's recommendations.

All shall comply with the State of Florida fertilizer laws.

#### CLEANUP:

Landscape Contractor shall at all times keep job site clean and free from accumulation of waste material, debris and rubbish.

#### INSPECTION:

Upon written request from the Contractor, Owner and/or Landscape Architect shall perform inspection to determine completion of Contract.

#### ACCEPTANCE:

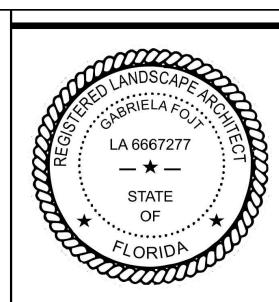
Following inspection, Contractor will be notified, in writing, by Owner and/or Landscape Architect of acceptance of completion with regards to plant material and workmanship according to Contract.

# 13. ALL TREES AND PALMS SHALL BE PLANTED AT LEAST FIVE (5) FEET AWAY FROM ANY UNDERGROUND UTILITY LINE. 14. ALL TREES AND PALMS SHALL BE PLANTED AT LEAST SEVEN AND A HALF (7.5) FEET AWAY FROM ANY FIRE HYDRANT.

- 15. ANY SPECIES THAT ARE LISTED AS CATEGORY I AND II SPECIES ON THE MOST CURRENT 'FLORIDA EXOTIC PEST PLANT COUNCIL" LIST ARE PROHIBITED TO BE PLANTED ON PRIVATE PROPERTY OR ON CITY PROPERTY INCLUDING ROW AND SWALE AREAS. SEC. 106.01
- 16. A MAXIMUM OF 50% OF THE REQUIRED TREES MAY BE OF A PALM SPECIES. SEC.3.5
- 17. STREET TREES: AT TIME OF INSTALLATION, SHADE TREES MUST BE A MINIMUM OF 12' OVERALL HEIGHT, APPROVED PALM TREES ARE TO HAVE A MINIMUM OF 8' CLEAR TRUNK (CT).
- 18. IDENTIFY ALL TREES TO REMAIN ON SITE WITH THE CORRESPONDING TREE PROTECTION AND PROTECTION BARRIERS. PROVIDE A TREE PROTECTION BARRIER DETAIL ON PLAN AS APPROVED BY CITY OF HOLLYWOOD. OUTLINE THE TREE PROTECTION BARRIER TO SCALE AROUND EACH TREE/PALM TO REMAIN ON PLAN.
- 19. PROVIDE A RECENT TREE SURVEY TO SHOW THE EXISTING TREES ON SITE AND IN SWALE AREAS.
- 20. SHOW ALL TREES ON SITE TO SCALE, SUPERIMPOSE EXISTING TREES ON PROPOSED SITE PLAN. THE TREE LEGEND MUST INCLUDE THE TREE NUMBER, COMMON NAME, BOTANICAL NAME, DBH, OVERALL HEIGHT, SPREAD, CONDITION, AND DISPOSITION (TO REMAIN, TO BE RELOCATED, TO BE REMOVED). SHOW ALL CANOPY INCLUDING CROWNS OF TREES FROM ADJACENT LOT LOCATED WITHIN 10' FROM PROPERTY LINE.
- 21. PROVIDE SIGHT TRIANGLES ON PLANS AT INTERSECTION OF DRIVEWAY AND PROPERTY LINE.
  22. NATIVE PLANT REQUIREMENTS; 60% TREES, 50% SHRUBS SEC. 3.4.
- 23. LABEL ALL SIDES OF PROPERTY WEATHER THERE ARE 'EXISTING OVERHEAD POWERLINES' OR 'NO OVERHEAD POWERLINES'. PROVIDE FPL APPROVED TREES FOR PLANTING UNDER POWERLINES.
- 24. TREE REMOVAL DISCLAIMER: WRITE THIS STATEMENT ON ALL SHEETS FOR EXISTING/PROPOSED LANDSCAPE: 'TREES AND PALMS SHALL NOT BE REMOVED WITHOUT FIRST OBTAINING AN APPROVED TREE REMOVAL PERMIT FROM THE CITY OF HOLLYWOOD.'
- 25. ABOVE GROUND EQUIPMENT: WHERE REQUIRED FOR SCREENING PURPOSES, HEDGE SHALL BE PLANTED AT EQUIPMENT HEIGHT FOR VISUAL SCREENING.
- 26. NO TREE REMOVALS ALLOWED WITHOUT AN APPROVED CITY OF HOLLYWOOD TREE REMOVAL PERMIT.
- 27. FOR BUILDING PERMITS; NO TREE REMOVAL OR PLANTING ALLOWED WITHOUT AN APPROVED SUB-PERMIT.

  28. EQUIPMENT (DUMPSTERS, ELECTRICAL TRANSFORMERS, ETC. WITH THE EXCEPTION OF FIRE HYDRANTS) MUST BE SCREENED ON AT LEAST THREE SIDES BY LANDSCAPE MATERIAL A MINIMUM OF 30 INCHES TALL. LANDSCAPING MUST
- NOT INTERFERE WITH THE NORMAL OPERATION OF THE EQUIPMENT.

  29. IF YOU ARE PLANNING A PROJECT ON YOUR PROPERTY THAT INVOLVES DIGGING, SUCH AS INSTALLING A MAILBOX, FENCES, PLANTING TREES, ETC., YOU ARE ENCOURAGED TO CALL 811 A FEW DAYS BEFORE YOU START TO MAKE SURE YOU DO IT SAFELY. UTILITY COMPANIES WILL MARK BURIED LINES SO THAT YOU CAN DIG SAFELY AROUND THEM. VISIT CALL811.COM FOR DETAILS.

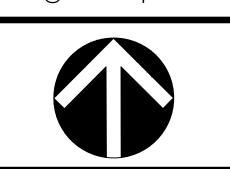




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Fort Lauderdale
FL 33306
c (954) 478 3064
www.florida-landscape.com
gabriela@themirrorofparadise.com

2700 E Oakland Park Blvd



SCALE as noted
DESIGNED BY GF
DRAWN BY KM,GF
CHECKED BY GF
CAD DWG.
DATE 10.07.2024
REVISIONS
per City comments 1 11.23.2024
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OLORED PLAN & NOTES

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CONTRACT DOCUMENTS.

UTILITY GENERAL NOTES

- 1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS
- 2. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (N01) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE MODES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS
- 3. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE
- 4. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. SZAUER
- 5. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. SZAUER ENGINEERING, INC. IS NOT RESPONSIBLE FOR
- 6. THE CONTRACTOR SHALL SUBMIT (6) COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL THOROUGHLY CHECK SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES FOR COMPLETENESS AND FOR COMPLIANCE WITH THE CONSTRUCTION PLANS AND SHALL VERIFY ALL DIMENSIONS AND FIELD ONDITIONS AND SHALL COORDINATE THE SHOP DRAWINGS WITH THE REQUIREMENTS FOR OTHER RELATED WORK. THE CONTRACTORS RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT LIEVED BY THE ENGINEERS REVIEW OF SUBMITTALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING AT THE TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM THE REQUIREMENTS OF THE
- PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.
- 9. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.
- 10. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE
- EST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATOR
- 11. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER, ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. 12. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK, CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL

#### ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

- 1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.
- 2. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTORS SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY, ANY UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSELY COORDINATED
- 3. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL CENTER BY DIALING "811" AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. PER FLORIDA STATUTE 553.851, THE CONTRACTOR OR EXCAVATOR
- 4. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO NATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH EACH UTILITY
- 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE ED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEE
- 7. TYPICAL DETAILS AS SHOWN ARE TO ILLUSTRATE THE ENGINEERS INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE METHOD OF CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDING HE SUBMITS A PROPOSAL FOR AN ALTERNATE METHOD TO THE ENGINEER FOR APPROVAL AND USES MATERIALS AS DESIGNATED IN THE
- 8. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES, THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DEPARTURES FOR THE CONTRACTORS CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 9. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE

#### AS-BUILT DRAWING REQUIREMENTS

- AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PART
- 2. AT THE COMPLETION OF THE WORK, DELIVER THE DRAWINGS DOCUMENTING AS-BUILT INFORMATION, MEASURED BY A LICENSED SURVEYOR, TO THE ENGINEER, IN GOOD CONDITION AND FREE FROM ANY EXTRANEOUS NOTATION. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING
- A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.
- C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND. AT LOCATIONS DESIGNATED BY THE ENGINEER, TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
- D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
- E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.
- G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL
- H. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET. I. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.
- J. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN
- K. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS. L. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
- M. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA. THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

#### EROSION AND SEDIMENT CONTROL

- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEDIMENT CONTROL CONSISTS OF SILT FENCING AND FLOATING TURBIDITY BARRIERS PER FDOT INDEX NO. 102 AND 103. EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.
- 2. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL EROSION AND SILTATION DURING LIFE OF CONTRACT. OWNER HAS AUTHORITY TO LIMIT IRFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, TRENCHING, BORROW AND EMBANKMENT OPERATIONS. OWNER ALSO HAS AUTHORITY TO DIRECT CONTRACTOR
- 3. CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSION ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 4. CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.
- 5. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS REPRESENT A MINIMUM REQUIREMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NEEDED IN ORDER TO PREVENT THE TRANSFER OF SEDIMENT FROM THE PROJECT AREA AND PREVENT THE EROSION OF SURFACES DURING CONSTRUCTION, AS NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER BODIES.
- 6. GRASS ALL DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE. TYPE OF GRASSING SHALL BE AS FOLLOWS: TEMPORARY GRASSING TO BE SODDING AT ALL DRAINAGE STRUCTURES, RETENTION AREAS, SWALES AND DITCHES, AND WHERE SLOPES ARE STEEPER THAN 5:1. TEMPORARY GRASSING CAN BE SEED AND MULCH AT ALL OTHER LOCATIONS UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR
- INSPECT EVERY TWO WEEKS DURING CONSTRUCTION. REMOVE ANY SEDIMENT BUILD-UP. REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF
- 8. AREAS TO BE PAVED SHALL BE TREATED WITH A BITUMINOUS PRIME COAT AND SANDED TO MINIMIZE EROSION, WHERE PAVING IS SCHEDULED TO OCCUR MORE THAN 48 HOURS AFTER INSTALLATION OF BASE COURSE. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF INSTALLATION OF THE SUBGRADE. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.

#### TRAFFIC CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION, ALL PROPOSED ROADWAY AND DRIVEWAY LANE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.
- 2. ALL CONSTRUCTION SIGNING AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NO. 600 AND THE MANUAL ON UNIFORM AFFIC CONTROL DEVICES (MUTCD). THE PLACEMENT OF THE SIGNING AND MARKINGS SHALL BE APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO CONSTRUCTION
- 3. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
- 4. CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION. 5. WET UNSTABILIZED AREAS AS NECESSARY TO CONTROL DUST.
- 6. ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.
- 7. THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY
- 8. WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT
- 9. TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.

#### SITE PREPARATION

- UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON IHE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE
- 2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING
- 3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.
- 4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.
- 5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN
- 6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.
- 7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK 8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.
- 9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN T IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL
- 10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

- GRADING SHOWN ON THESE PLANS ARE PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO ROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING ITENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
- 2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTORS SILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO
- 3. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE. GRADER OPERATIONS
- 4. SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF 'A-INCH PER FOOT FOR 10 FEET. FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.
- 5. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE\_ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

#### **EXCAVATION, TRENCHING, AND FILL**

- 1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
- 2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TOTHE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS. 3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE
- DESIGN VOLUME. THE CONTACTOR MAY BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER. 4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING, MINIMUM 2 TESTS EACH LAYER; B) ONE TEST FOR EACH 100 SQUARE
- EET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES; C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.
- 5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.
- A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6; ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP; UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT; UNLESS OTHERWISE APPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.
- 6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS. 7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY
- ROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPEF 8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO
- UPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.
- 9. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE RECOMMENDATIONS CONTAINED WITHIN THE
- 10. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS. AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS.
- 11. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE. 12. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.
- 13. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND BACKFILL IN LAYERS OF 12 INCH LOOSE DEPTH.
- 14. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL OF THE INFLUENCE AREA OF THE INFLUENC PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND PROAD EMBANKMENT = 95 PERCENT = 95 PERCENT

#### UTILITY SEPARATION REQUIREMENTS

- 1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE
- A. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF THREE FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, VACUUM TYPE SANITARY SEWER AND
- B. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF SIX FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN. THE MINIMUM HORIZON SEPARATION DISTANCE BETWEEN THE OUTSIDE OF WATER MAINS AND THE OUTSIDE OF GRAVITY SANITARY SEWERS CAN BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX
- C. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM ALL PARTS OF ANY EXISTING OR PROPOSED ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES

LEAST SIX INCHES ABOVE THE OUTSIDE OF THE SEWER. WHERE IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, AND STORM SEWER, THEN THE WATER MAIN CAN CROSS UNDER THESE TYPES OF PIPELINE SYSTEMS PROVIDED THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE PIPELINE. AT

- 2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH THE A. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, SO THE OUTSIDE OF THE WATER MAIN IS AT
- THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM VACUUM TYPE SANITARY SEWER OR STORM SEWER JOINTS, AND AT LEAST SIX FEET FROM GRAVITY SANITARY SEWER JOINTS. B. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED RECLAIMED WATER MAINS, WASTEWATER FORCE MAINS AND STORMWATER FORCE MAINS WHETHER THE WATER MAIN CROSSES OVER OR UNDER THESE TYPES OF PIPELINE SYSTEMS, THE OUTSIDE OF THE WATER MAIN SHALL BE AT LEAST 12 INCHES FROM THE OUTSIDE OF THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN AND STORMWATER FORCE MAIN. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM RECLAIMED
- WATER MAIN JOINTS AND STORMWATER FORCE MAIN JOINTS, AND AT LEAST SIX FEET FROM THE JOINTS OF WASTEWATER FORCE MAINS.
- 3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE. 4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST
- A. THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.
- B. SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.
- C. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES
- 5. THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION VARIANCES WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS, AND ARE ONLY TO BE IMPLEMENTED UPON RECEIPT OF EXPRESSED WRITTEN CONSENT FROM THE ENGINEER. IMPLEMENTATION OF THESE MEASURES WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER COULD RESULT IN THE REQUIREMENT THAT THE
- INSTALLED UNAPPROVED MEASURES BE REMOVED AND REPLACED AT NO COST. A. WHERE A WATER MAIN IS LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN THE JOINTS IN THE OTHER PIPELINE:
- 1) USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS FOR A GRAVITY OR VACUUM TYPE PIPELINE
- 2) USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPELINE. 3) USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER PIPE
- B. WHERE A WATER MAIN IS LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE LESS THAN THE REQUIRED MINIMUM SEPARATION:
- 1) USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25 INCH THICK DUCTILE IRON PIPE), OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN AND FOR THE OTHER PIPELINE IF THE OTHER PIPELINE COVEYS WASTEWATER OR RECLAIMED WATER

This item has been digitally signed and sealed by Jorge Szauer, PE. On February 18, 2025. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

#### WATER AND RECLAIMED WATER DISTRIBUTION SYSTEMS

- 1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE WATER SYSTEMS SHOWN ON THESE PLANS IS THE CITY OF HOLLYWOOD. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF HOLLYWOOD -
- 2. ALL WATER AND RECLAIMED MAIN PIPE SHALL BE EITHER DUCTILE IRON OR PVC, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 3. INSTALL ALL WATER AND RECLAIMED MAINS AT A MINIMUM 36 INCHES OF COVER.
- 4. BURIED DUCTILE IRON PIPE SHALL CONFORM WITH ANSI/AWWA C150/A21.50 AND C151/ A21.51, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI, BURIED PIPE SHALL COMPLY WITH THE FOLLOWING RESSURE CLASS (PC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 12" DIAMETER AND SMALLER = PC 350; B) 14" THROUGH 24" DIAMETER = PC 250; C) 30" THROUGH 64" DIAMETER = PC 200.
- 5. EXPOSED PIPE 4" AND LARGER SHALL BE DUCTILE IRON FLANGED AND SHALL CONFORM WITH AWWA/ANSI C115/A21.15, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. FLANGED PIPE SHALL COMPLY WITH THE FOLLOWING THICKNESS CLASS (TC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 4" DIAMETER = TC 54; B) T THROUGH 24" DIAMETER = TC 53
- 6. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8-MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
- 7. PVC PIPE 4" 17 SHALL CONFORM TO AWWA C900. PIPE 14" 36" SHALL CONFORM TO AWWA C905. PIPE SHALL CONFORM TO ASTM D1784, TYPE I, GRADE I, 4000 PSI DESIGN STRESS, AND SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL BE CLASS 150 (DR18) WITH MARKINGS ON EACH SECTION SHOWING CONFORMANCE TO THE ABOVE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKETED CONFORMING T AWWA C900 OR C905 THE BELL SHALL BE INTEGRAL WITH THE PIPE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO
- 8. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.
- 9. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. INTERIOR LINING SHALL BE STANDARD THICKNESS CEMENT MORTAR LINING PER ANSI/AWWA C104/A21.4. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSI/AWWA C110/A21. 10. EXTERIOR COATING OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPDXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE
- 11. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE

PAINTED WITH TWO COATS TNEMEC SERIES 2 TNEME-GLOSS, GLIDDEN LIFE MASTER PRO HIGH PERFORMANCE ACRYLIC NO. 6900 SERIES, OR EQUAL, AT MINIMUM 4 MILS DRY FILM THICKNESS PER COAT. PAINT COLOR

- 12. ALL FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH DIPRA, "THRUST RESTRAINT DESIGNED FOR DUCTILE IRON PIPE". PIPE JOINTS SHALL BE RESTRAINED UPSTREAM AND DOWNSTREAM OF FITTINGS IN FIELD FLEX RING, LOK-RING, US PIPE TR-FLEX, EBAA MEGALUG, OR EQUAL. PVC PIPE JOINTS SHALL BE RESTRAINED USING MECHANICAL DEVICES, UNI-FLANGE BLOCK BUSTER SERIES 1350 OR ENGINEER APPROVED
- 13. ALL SERVICE PIPING (W -T) SHALL BE POLYETHYLENE. SDR-PR PE PIPE SHALL BE MANUFACTURED FROM PE3408 AND SHALL CONFORM TO AWWA C901. ALL PIPE SHALL BE DR9, PRESSURE CLASS 200 PSI, PIPE AND GS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.
- 14. ALL SERVICE SADDLES SHALL CONSIST OF DUCTILE IRON BODIES IN ACCORDANCE WITH ASTM A536, WITH DOUBLE STAINLESS STEEL STRAPS, BOLTS, WASHERS AND NUTS. STAINLESS STEEL TO BE TYPE 304. NUTS TO BE TEFLON COATED, DUCTILE IRON BODY TO BE FUSION BONDED NYLON COATING. MINIMUM THICKNESS 12 MILS. OUTLET OF SADDLE TO HAVE NPT THREADS.
- 15. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS. CONFORMANCE WITH AWWA C800 AND C901 IS REQUIRED. THE CONTRACTOR SHALL CUT "W" IN THE TOP CURB OF EACH WATER SERVICE AND A "V AT ALL VALVE LOCATIONS. CUT WS AND VS SHALL BE HIGHLIGHTED WITH BLUE PAINT.
- 16. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS AND RECLAIMED WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE AND RECLAIMED WATER SERVICE TO THE CORPORATION STOP. 17. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES TWO INCHES AND SMALLER SHALL BE ALL BRASS OR BRONZE; VALVES OVER TWO INCHES SHALL BE IRON BODY, FULLY BRONZE OR BRONZE MOUNTED.
- 18. VALVES 4 INCHES AND LARGER SHALL BE LINED AND COATED. INTERIOR OF VALVES SHALL BE COATED WITH A RUST INHIBITING EPDXY PRIMER, FOLLOWED BY A COAL TAR EPDXY, TOTAL MINIMUM DRY FILM THICKNESS OF 16 MILS, APPLIED AT THE FACTORY. EXTERIOR COATING ON BURIED VALVES SHALL BE RUST INHIBITING EPDXY PRIMER, FOLLOWED BY A COAL TAR EPDXY, TOTAL MINIMUM DRY FILM THICKNESS OF 16 MILS, APPLIED AT THE FACTORY, EXTERIOR COATING OF EXPOSED VALVES SHALL BE FACTORY APPLIED RUST INHIBITING EPDXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH TWO COATS TNEMEC SERIES 2 TNEME-GLOSS, GLIDDEN LIFE MASTER PRO HIGH PERFORMANCE ACRYLIC NO. 6900 SERIES, OR EQUAL, AT 4 MILS MINIMUM DRY FILM THICKNESS PER COAT. PAINT COLOR TO BE IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.
- 19. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. GATE VALVES 3 INCHES TO 12 INCHES SHALL CONFORM TO AWWA C509. THE VALVES SHALL BE IRON BODY, AST IRON FULLY ENCAPSULATED MOLDED RUBBER WEDGE COMPLYING WITH ASTM D2000, NON-RISING STEM WITH 0-RING SEALS. VALVES SHALL OPEN COUNTERCLOCKW
- 21. VALVES 14" AND LARGER SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH, TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVE BODY SHALL BE MECHANICAL JOINT END TYPE VALVE CONSTRUCTED OF CAST IRON OR DUCTILE IRON. DISC SHALL BE ONE PIECE CAST DESIGN WITH NO EXTERNAL RIBS TRANSVERSE TO FLOW. DISC SHALL BE CAST IRON OR DUCTILE IRON. THE RESILIENT SEAT SHALL MATE WITH A 304 OR 316 STAINLESS STEEL SURFACE
- 22. VALVE SEATS SHALL BE MECHANICALLY RETAINED, AND MAY BE INSTALLED ON EITHER THE BODY OR DISC. 0-RING SEATS ON VALVE DISCS ARE UNACCEPTABLE SEATS FOR VALVES 14" DIAMETER AND LARGER SHALL BE FULLY FIELD REPLACEABLE WITHOUT THE USE OF SPECIAL TOOLS. OPERATORS OF THE ENCLOSED TRAVELING-NUT TYPE SHALL BE PROVIDED UNLESS
- 23. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES APPROXIMATELY 5 INCHES IN DIAMETER WITH A MINIMUM THICKNESS OF 3/16 INCH CAST IRON, BOXES SHALL BE OF SUFFICIENT LENGTH TO RATE ALL VALVES BURIED IN THE GROUND, CONSISTING OF BASE, CENTER SECTION, AND TOP SECTION WITH COVER. VALVE BOXES LOCATED IN UNPAVED AREAS SHALL BE SLIP TYPE DESIGN TO PERMI MOVEMENT OF THE TOP SECTION WITHOUT TRANSMITTING FORCES ONTO THE VALVE BODY. VALVE BOXES CAST INTO CONCRETE OR ASPHALT SURFACING SHALL HAVE BRASS COVERS. ALL VALVE BOX COVERS SHALL BE INTERNALLY CHAINED TO VALVE BOXES WITH AN APPROXIMATELY 18 INCH GALVANIZED CHAIN. VALVE BOX COVERS SHALL BE CAST WITH THE INSCRIPTION 'WATER' OR "RECLAIMED WATER
- 24. PVC PIPE SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS). STENCILED "WATER LINE" OR "RECLAIMED WATER LINE". AS APPLICABLE. (2" LETTERING ON TWO SIDES OF THE PIPE IN
- 25 INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH, APPLY TAPE TO SURFACE OF PIPE. CONTINUOUSLY EXTENDING FROM 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10P - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED
- 26. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE, TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, TAPE SHALL BE COLORED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) WITH BLACK LETTERING, CODED AND WORDED "CAUTION: WATER MAIN BURIED BELOW", OR "CAUTION: RECLAIMED WATER MAIN BURIED BELOW", APPLICABLE
- 27. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. WIRE SHALL BE COLOR-CODED 14 GAUGE CONTINUOUS INSULATED WIRE. COLOR CODING SHALL BE SIMILAR TO WARNING TAPE COLORS, INSTALL LOCATOR WIRE ALONG ALL PRESSURIZED PIPELINES 7 AND LARGER. LOOP WIRE INTO ALL VALVE BOXES, LOOPING TO OCCUR EVERY 500 FEET MINIMUM. WHERE THERE ARE NO VALVE BOXES TO ALLOW LOOPING, PROVIDE ACCESS BOXES PER CITY REQUIREMENTS. CHECK WIRE FOR ELECTRICAL CONTINUITY. 28. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF
- THE MANUFACTURERS RECOMMENDED MAXIMUM DEFLECTION. 19. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS
- 30. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING

20. TAPPING VALVES AND SLEEVES SHALL BE APPROVED AWWA TYPE OF THE SIZE REQUIRED. VALVES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509.

31. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE. 32 APPLY HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS) 200 PSI (FIRE MAINS) OR 100 PSI (FIRE MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURERS SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

33. APPLY LEAKAGE TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 100 PSI (RECLAIMED WATER MAINS). MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST.

- THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF
- 34. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES 35. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/133200 (AWWA C-600 DUCTILE IRON MAINS), OR L = NDP/7400 (AWWAC-605 - PVC MAIN); WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; N = NUMBER OF JOINTS ALONG LINE BEING TESTED; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE
- PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE. 36. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE
- 37. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS. 38. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF

# THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM

- FIRE PROTECTION SYSTEMS
- COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.
- 2. INSTALL ALL FIRE LINE PIPING AT A MINIMUM 36 INCHES OF COVER. 3. ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.021(16) SHALL BE C900 DR 14. THE FIRE LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE
- 4. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING SHALL HOLD A CLASS I, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.021(5).
- 5. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.
- 6. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURERS CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED. 7. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH [(2) 2-1/2"] HOSE
- CONNECTIONS AND ONE-FOUR AND A HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH 8. ALL HYDRANTS SHALL BE PAINTED IN AN APPROVED MANNER WITH THE PRIMER PAINT BEING KOPPER'S "GLAMORTEX" NO. 622 RUST PRIMER AND THE FINISH PAINT SHALL BE TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMEN
- 9. BLUE PAVEMENT REFLECTORS (CAT EYES) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THERE SHALL BE NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES. 0. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN; AND TEN FEET FROM ANY ONSITE
- 11. THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.

SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT

# SANITARY SEWER SYSTEMS

- 1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS THE CITY OF HOLLYWOOD. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF HOLLYWOOD.
- 2. PVC SEWER PIPE SHALL BE TYPE PSM PVC PIPE CONFORMING TO ASTM D3034 AND SHALL BE SDR 35 FOR 4" THROUGH 15", AND ASTM F 679, WALL THICKNESS T-1, FOR PIPE 18" THROUGH 27". 3. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.

FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

4. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F47

6. PVC SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2. LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).

- 5. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS
- GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: -8" PIPE CENTER ALONG TOP HALF OF PIPE; 10" 18" PIPE PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

8. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES, TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE. COLORED GREEN WITH BLACK LETTERING CODED AND WORDED "CAUTION: SEWER BURIED BELOW"

C. SUBGRADE: STABILIZE TO A MIN, LBR OF 40, COMPACT TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASTHO T-180), CONTRACTOR MAY SUBSTITUTE LIMEROCK SUBGRADE (MIN, LBR OF 00) OR CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL"), Fic (28 DAY) = 100-125 PSI AT NO ADDITIONAL COST, PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED SUBGRAL

SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.

8. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.

3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4\* OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOOLED OR SAW CUT AT A DISTANCE OF 10'. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.

2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. MATERIAL STABILITY AND DENSITY REQUIREMENTS ARE AS FOLLOWS:

ASPHALT BASE COURSE TYPE 3 (MIN. STABILITY OF 1000 LBS) AT NO ADDITIONAL COST, PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED LIMEROCK BASE

SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS. 5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A

4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FDOT CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS

9. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY

10. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND

11. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING

13. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED IN EITHER DIRECTION, FULL CIRCLE, BETWEEN ADJACENT MANHOLES SHALL

14 CONDUCT LOW PRESSURE AIR TESTING (4.0 PSI INITIAL PRESSURE) OF INSTALLED SEWER PIPING IN ACCORDANCE WITH ASTM F1417 MAXIMUM ALLOWARI F. L. FAKAGE IS 0.0015 CURIC FEFT PER MINUTE PER SQUARE

15. CONDUCT LEAKAGE TESTING OF MANHOLES. PLUG INVERTS AND FILL MANHOLE WITH WATER. ALLOWABLE WATER DROP IN MANHOLE TO BE FIELD DETERMINED BY UTILITY AND ENGINEER. MINIMUM TEST DURATION IS 1

16. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. MEASURE DEFLECTION BY MANUALLY PULLING A

17. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES

2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH

3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED

5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS

PROVIDE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. CONNECTION OF CONCRETE PIPE TO THE MANHOLE SHALL BE MADE WITH NON-SHRINK METALLIC GROUT. CONNECTION OF DUCTILE IRON OR

MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER. THE USE OF ADHESIVES OR LUBRICANTS FOR INSTALLATION OF RUBBER CONNECTORS IS PROHIBITED

PVC PIPE TO THE MANHOLE SHALL PROVIDE A WATERTIGHT CONNECTION PER ASTM C923. WHERE CONNECTORS ARE USED, THEY SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING

FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE US FOUNDRY TYPE 227AS, TRAFFIC BEARING (AASHTO H-20 LOADING), UNLESS OTHERWISE NOTED IN THE DRAWINGS. CASTINGS

8. PROVIDE CAST IRON INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR

B. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER, LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.

ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76, ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS AND 0-RING GASKETS SHALL COMPLY ASTM C443. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES

2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR

CORRUGATED POLYETHYLENE (PE) PIPE AND FITTINGS SHALL BE HIGH DENSITY. IN ACCORDANCE WITH ASTM D3350. CELL CLASSIFICATION 324420C (4"-10") OR CELL CLASSIFICATION 335420C (17-36"). PIPE 4"-10" SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12"-36" SHALL COMPLY WITH AASHTO M294, TYPE S. BELL JOINTS FOR 4"-10" PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12"-36" PIPE SHALL BE INTEGRALLY FORME

5. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE

6. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT, MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A)

PE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES: MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER

WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321: MINIMUM COVER

9. ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUND WATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED BY SEALING OFF A LENGTH OF PIPE AND

MEASURING THE DEPTH OF FLOW OVER A MEASURING WEIR, OR BY PUMPING THE INFILTRATED WATER INTO CONTAINERS FOR MEASUREMENT. TESTS SHALL BE CONDUCTED FOR A MINIMUM OF FOUR HOURS.

INFILTRATION LEAKAGE SHALL NOT EXCEED 150 GALLONS PER 24 HOURS, PER INCH DIAMETER, PER MILE OF PIPE. WHEN THE GROUND WATER LEVEL IS BELOW THE TOP OF THE PIPE, THE PIPE SHALL BE TESTED FOR

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD

A. TYPE S ASPHALTIC CONCRETE: MINIMUM STABILITY 1500 LBS, COMPACTED TO A MINIMUM OF 95% OF THE MARSHALL DESIGN DENSITY. FOR OFFSITE PAVEMENT USE TYPE SP PAVEMENT PER THE FDOT STANDARDS

B. LIMEROCK BASE: MINIMUM LBR OF 100, PLACED IN 6" MAXIMUM LIFTS, COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASTHO T-180). CONTRACTOR MAY SUBSTITUTE

LEAKAGE BY EXFILTRATION. EXFILTRATION LEAKAGE TEST SHALL CONSIST OF ISOLATING THE PARTICULAR SECTION, FILLING WITH WATER TO A POINT 4 FEET ABOVE THE TOP OF THE PIPE AT THE UPPER MANHOLE OR INLET, AND ALLOWING IT TO STAND NOT LESS THAN FOUR HOURS. THE SECTION SHALL THEN BE REFILLED WITH WATER UP TO THE ORIGINAL LEVEL AND AFTER TWO HOURS THE DROP IN WATER SURFACE SHALL BE

4. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.

ON PIPE. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM D1056, GRADE 2A2. FITTINGS SHALL COMPLY WITH AASHTO M294.

7. INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS

MEASURED. THE COMPUTED LEAKAGE SHALL NOT EXCEED 150 GALLONS PER INCH DIAMETER, PER 24 HOURS, PER MILE OF PIPE.

MANDREL THROUGH THE PIPE. THE MINIMUM MANDREL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 6" SEWER = 5.45" MANDREL; 8" SEWER = 7.28" MANDREL; 10" SEWER = 9.08" MANDREL; 12"

FINTERNAL SURFACE AREA BEING TESTED. ALLOWABLE AIR PRESSURE DROP DURING THE TEST IS 0.5 PSIG. MINIMUM REQUIRED TEST TIME (DURATION) IS: A) 4" PIPE = 1 MIN 53 SEC; B) 6" PIPE = 2 MIN 50 SEC, OR

0.427 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; C) 8" PIPE = 3 MIN 47 SEC, OR 0.760 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; D) 10" PIPE = 4 MIN 43 SEC, OR 1.187 X LENGTH OF PIPE TESTED

BE CONSIDERED UNSATISFACTORY, UNLESS THE LINE IS DESIGNED WITH HORIZONTAL DEFLECTIONS, AND SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.

SEWER = 10.79" MANDREL; 15" SEWER = 13.20" MANDREL; 18" SEWER = 16.13" MANDREL; 21" SEWER = 19.00" MANDREL; 24" SEWER = 21.36" MANDREL; 27" SEWER = 24.06" MANDREL

THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE REMOVED OR CORRECTED DUE TO FAILING DEFLECTION TESTING SHALL ALSO BE RE-TESTED FOR LEAKAGI

GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE

4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO FDOT SPECIFICATION 942-2, UNLESS OTHERWISE INDICATED.

SHALL BE SMOOTH, CLEAN, FREE FROM BLISTERS, BLOWHOLES, AND SHRINKAGE. RAISED LETTERING ON COVERS SHALL BE "STORM", "SEWER", OR AS DETAILED ON THE DRAWING

UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

12. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.

WHICHEVER IS GREATER; E) 12" PIPE = 5 MIN 40 SEC, OR 1.709 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER.

PRECAST STRUCTURES AND APPURTENANCES

AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5 INCHES.

9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.

C. EXTERIOR - BITUMINOUS EPDXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

A. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPDXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS

11. AS-BUILT INFORMATION SHALL INCLUDE ALL RIM, TOP AND INVERT ELEVATIONS FOR ALL PRECAST STRUCTURES

10. MANHOLE COATINGS AND FINISHES SHALL BE:

# SIGNS AND PAVEMENT MARKINGS

PAVING, SIDEWALKS, AND CURBING

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. STANDARD INDEX NO. 11200, 11860, 11862, 11863, 11864, 11865, 17302, 17344, 17346, 17349, AND 17355 APPLY. GENERALLY, ALL MARKINGS SHALL CONFORM TO THE FOLLOWING: 6" EDGE LINES, 6" LANE
- 2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX
- 3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT. 4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE
- 5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
- 6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 7. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION

LINES, 6" SINGLE CENTERLINES, AND 6" DOUBLE LINE PATTERNS, UNLESS OTHERWISE NOTED ON THE PLANS.

8. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

#### PAVING TIMING REQUIREMENTS

- . INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL / OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALK, INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT
- AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE
- 3. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.

Reviews:

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JORGE M. SZAUEF **JJANSE** JORGE M. SZAUER

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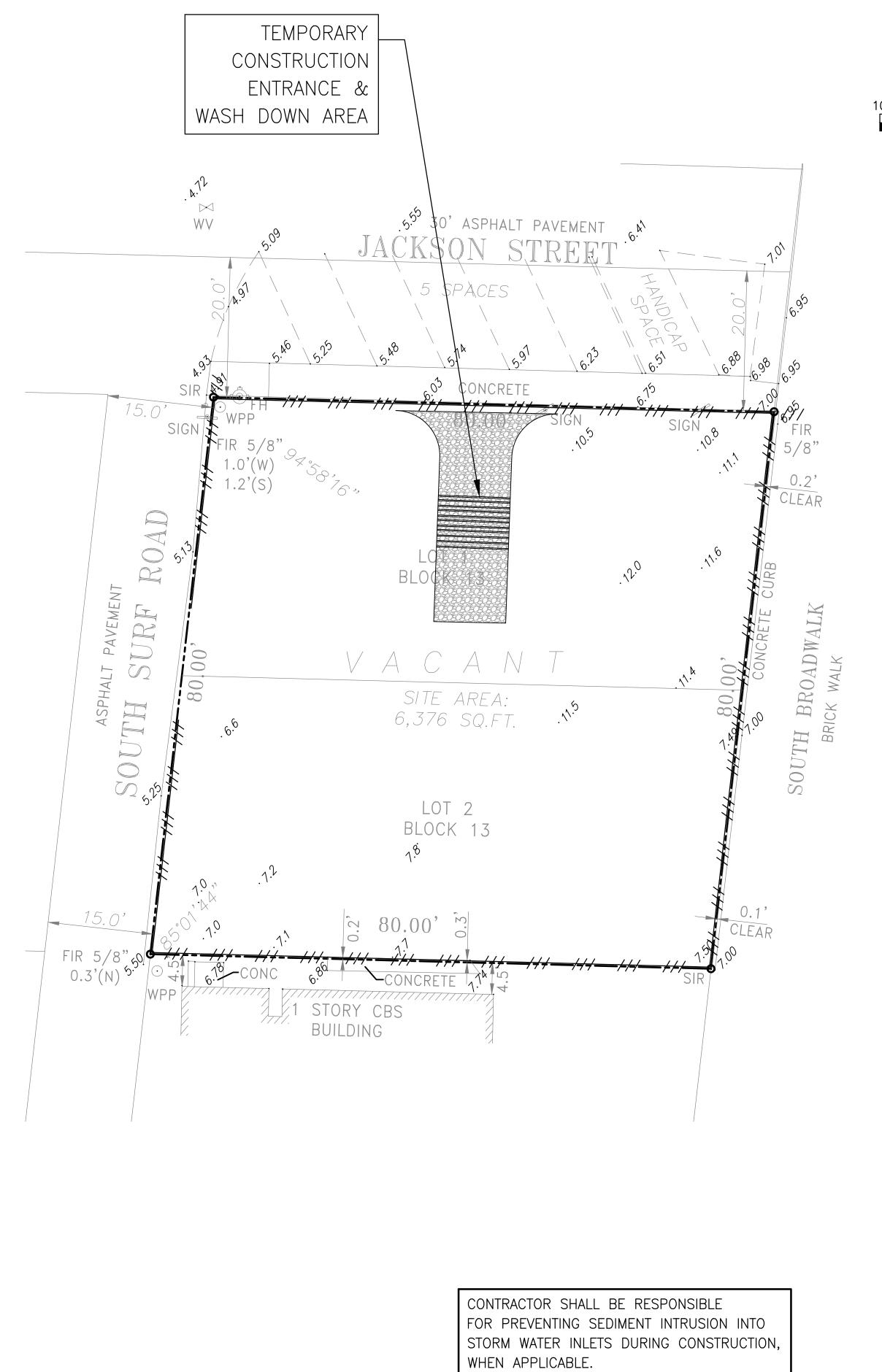
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JORGE SZAUER FLA. REG. P.E. # 62579

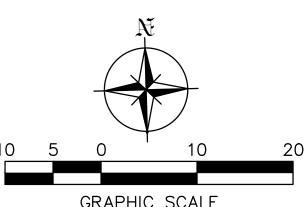
SEPTEMBER 2024



This item has been digitally signed and sealed by Jorge Szauer, PE. On February 18, 2025.

must be verified on any electronic copies.

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#### GENERAL EROSION & SEDIMENTATION CONTROL NOTES

- A. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- B. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- C. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- D. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND / OR GRADING SHALL BE PERMITTED.
- E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWNSTREAM SIDES.
- F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- H. DUST ON THE SITE SHALL BE MINIMIZED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS.

  MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGHOUT THE ACTION OF WIND OR STORM WATER
  DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- J. ALL DENUDED / BARE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE , MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY , WITH THE USE OF FAST—GERMINATING ANNUAL GRASS / GRAIN VARIETIES, STRAW / HAY MULCH WOOD CELLULOSE FIBERS , TACKIFIERS, NETTING OR BLANKETS.
- K. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND / OR VEGETATED IMMEDIATELY, AND NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND / OR LANDSCAPE PLAN.
- L. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE ONLY USE INGRESS / EGRESS LOCATIONS AS PROVIDED.
- M. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- N. CONTRACTOR OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- O. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- P. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- Q. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- R. GENERAL CONTRACTOR IS TO DESIGNATE / IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- S. WHEN INSTALLATION OF SILT FENCE IS PERFORMED, THE CONTRACTOR SHALL STABILIZE THE DISTURBED AREA ALONG THE DOWNWARD SLOPE BY SEEDING OR MULCHING AS CONDITIONS WARRANT.

#### BMP MAINTENANCE EROSION NOTES

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- 2. ALL SEEDED \ SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED \ RESODDED AS NEEDED.
- 3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE—HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS

- CONDITIONS DEMAND.

  5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND
- STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

  6. OUTLET STRUCTURES SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
- 7. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. AND DEBRIS AND / OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

#### WASHING AREAS

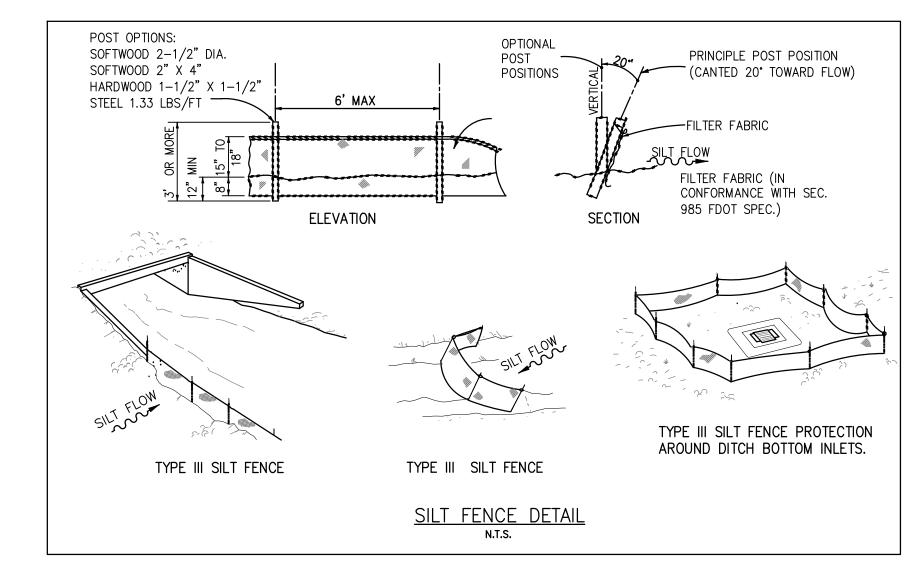
VEHICLES SUCH AS CEMENT OR DUMP TRUCKS AND OTHER CONSTRUCTION EQUIPMENT SHOULD NOT BE WASHED AT LOCATIONS WHERE THE RUNOFF WILL FLOW DIRECTLY INTO A WATERCOURSE OR STORMWATER CONVEYANCE SYSTEM. SPECIAL AREAS SHOULD BE DESIGNATED FOR WASHING VEHICLES. THESE AREAS SHOULD BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND, OR WHERE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHOULD HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.

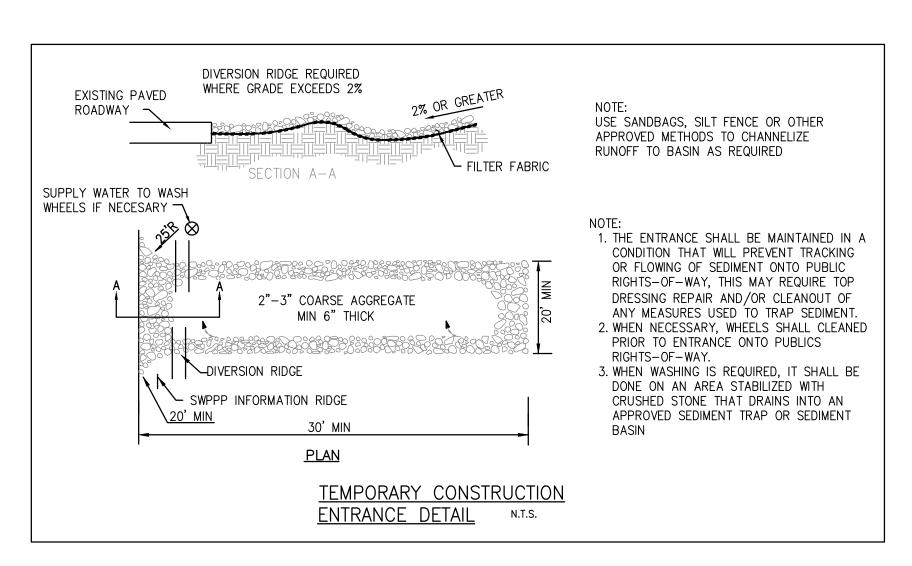
#### SYMBOLS LEGEND

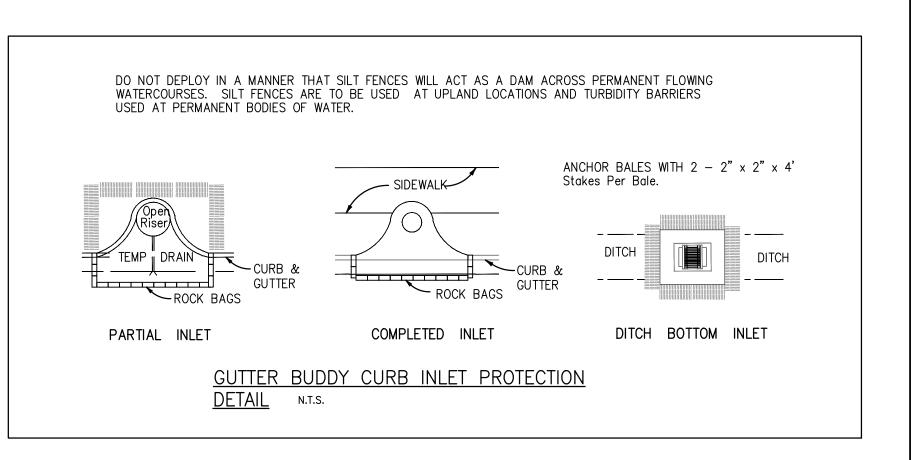
/// PROPOSED SILT FENCE



LOCATION MAP







Engineering ers

Civil Engineers
7251 W Palmetto Park F
Boca Raton, FL. 33433
Phone: (561) 716-0159

Reviews:

SURF RD TRUST SURF RD RESIDENCE

EROSION CONTROL PLAN

S

50 Project

JORGE SZAUER
FLA. REG. P.E. # 62579

Designed by:

JORGE M. SZAUER

Drawn by:

JJANSE

Revised & Sealed:

JORGE M. SZAUER

Date:

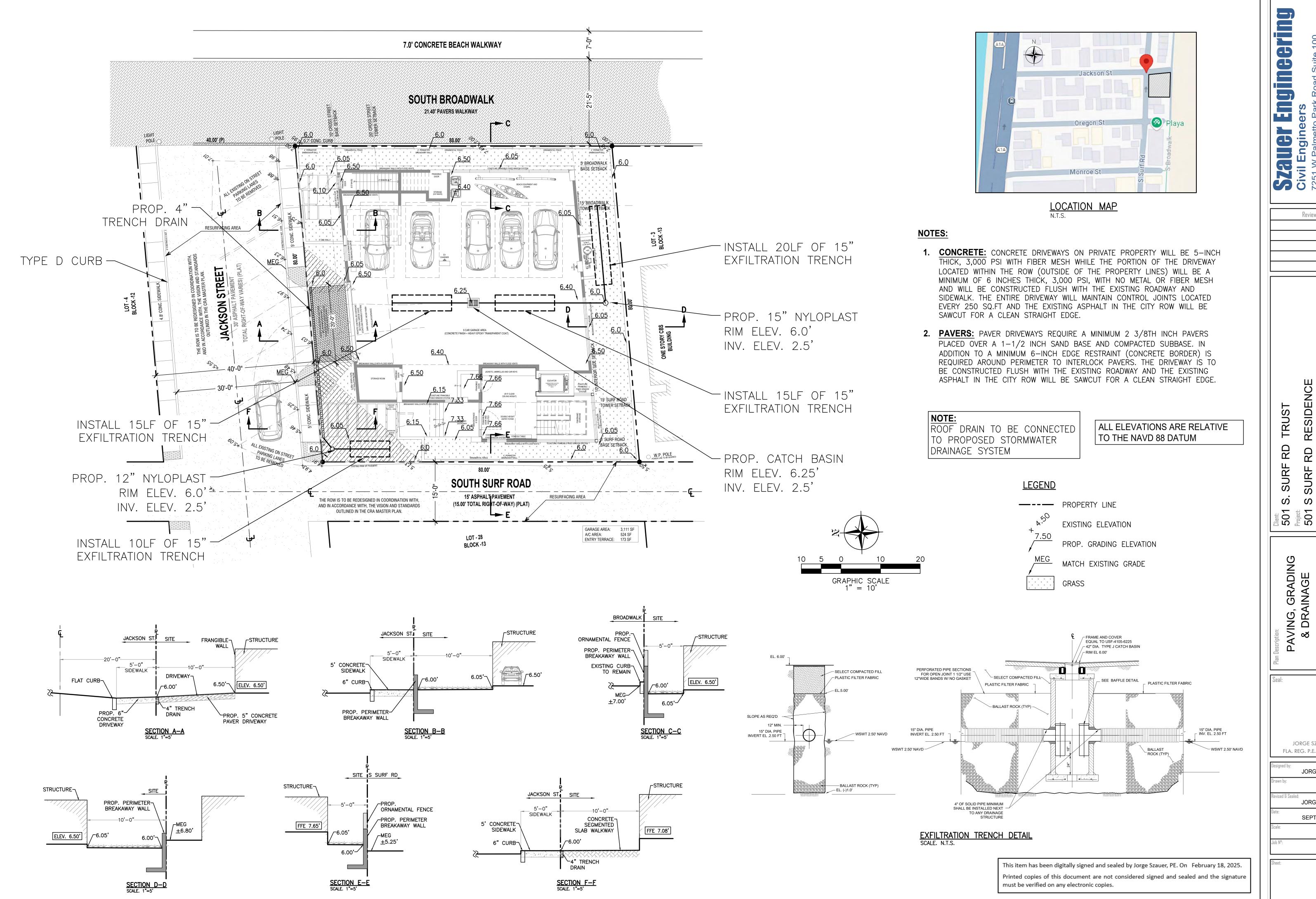
SEPTEMBER 2024

Scale:

AS SHOWN

C-02

of Sheets



Engineering

Reviews:

ESIDENCE SURF

PAVING, GRADING & DRAINAGE

JORGE SZAUER

FLA. REG. P.E. # 62579 JORGE M. SZAUER

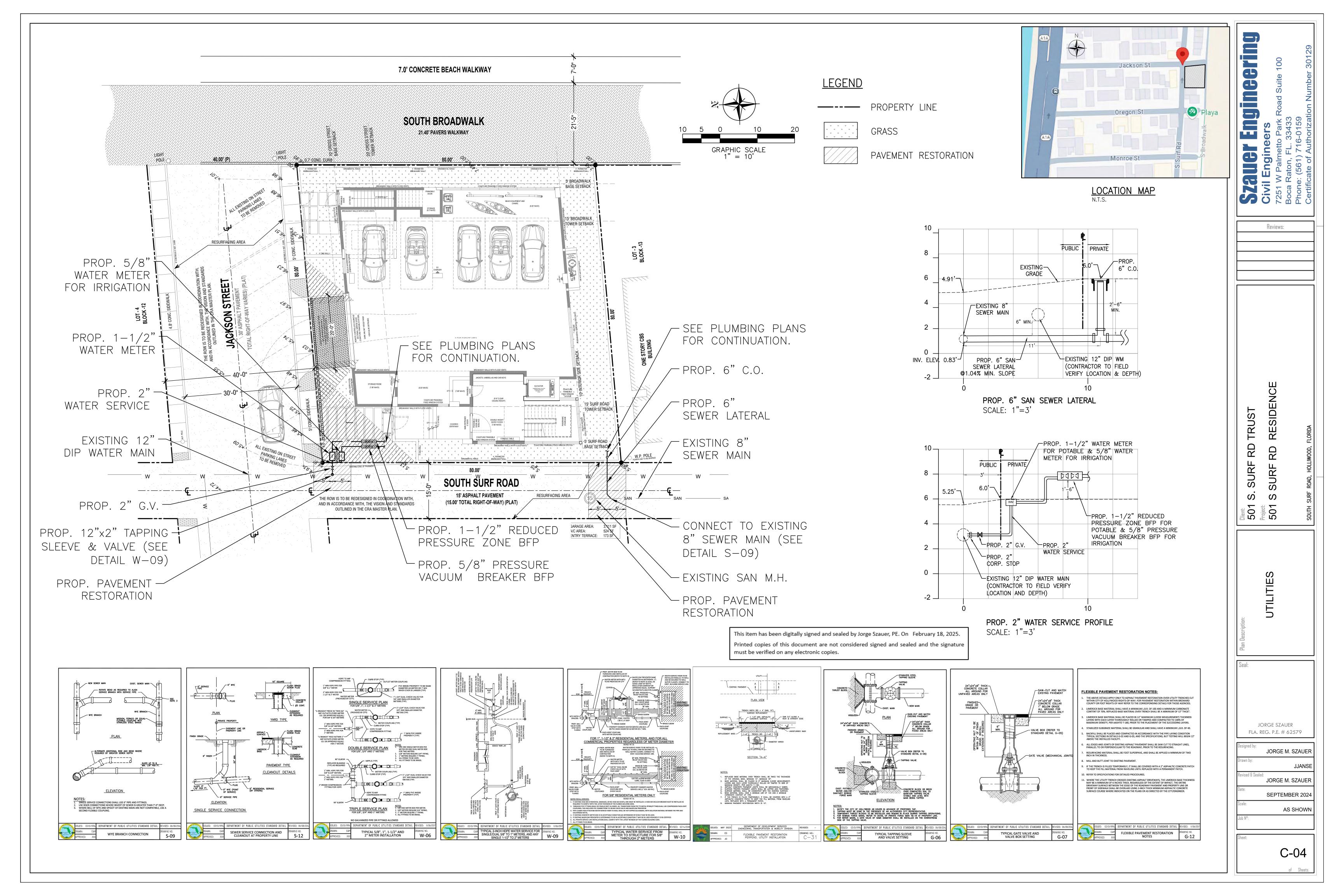
**JJANS** 

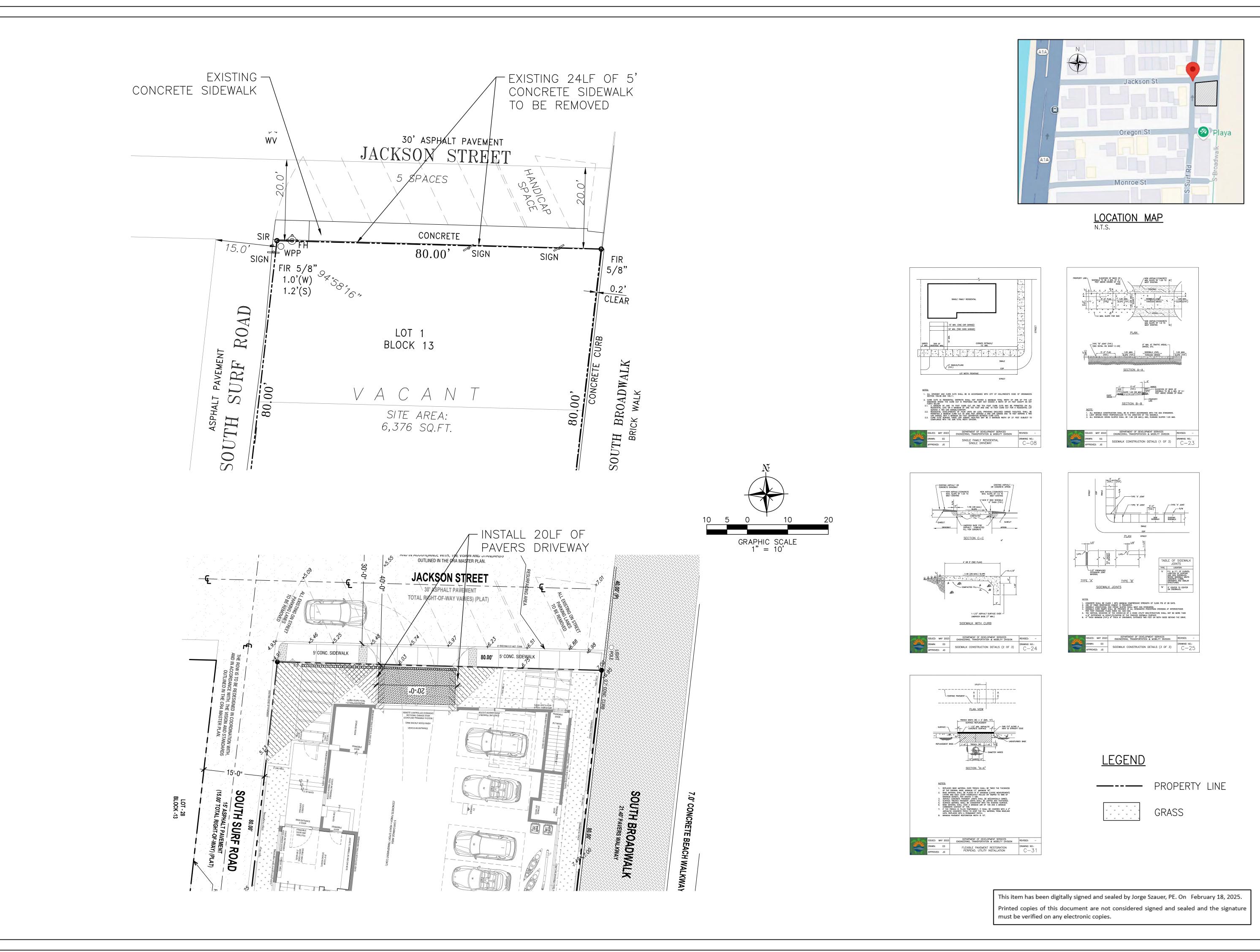
JORGE M. SZAUER SEPTEMBER 2024

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of Sheets.





Szauer Engineers

Reviews:

RESIDENCE TRUST SURF RD RD SURF Ś

ROADWAY

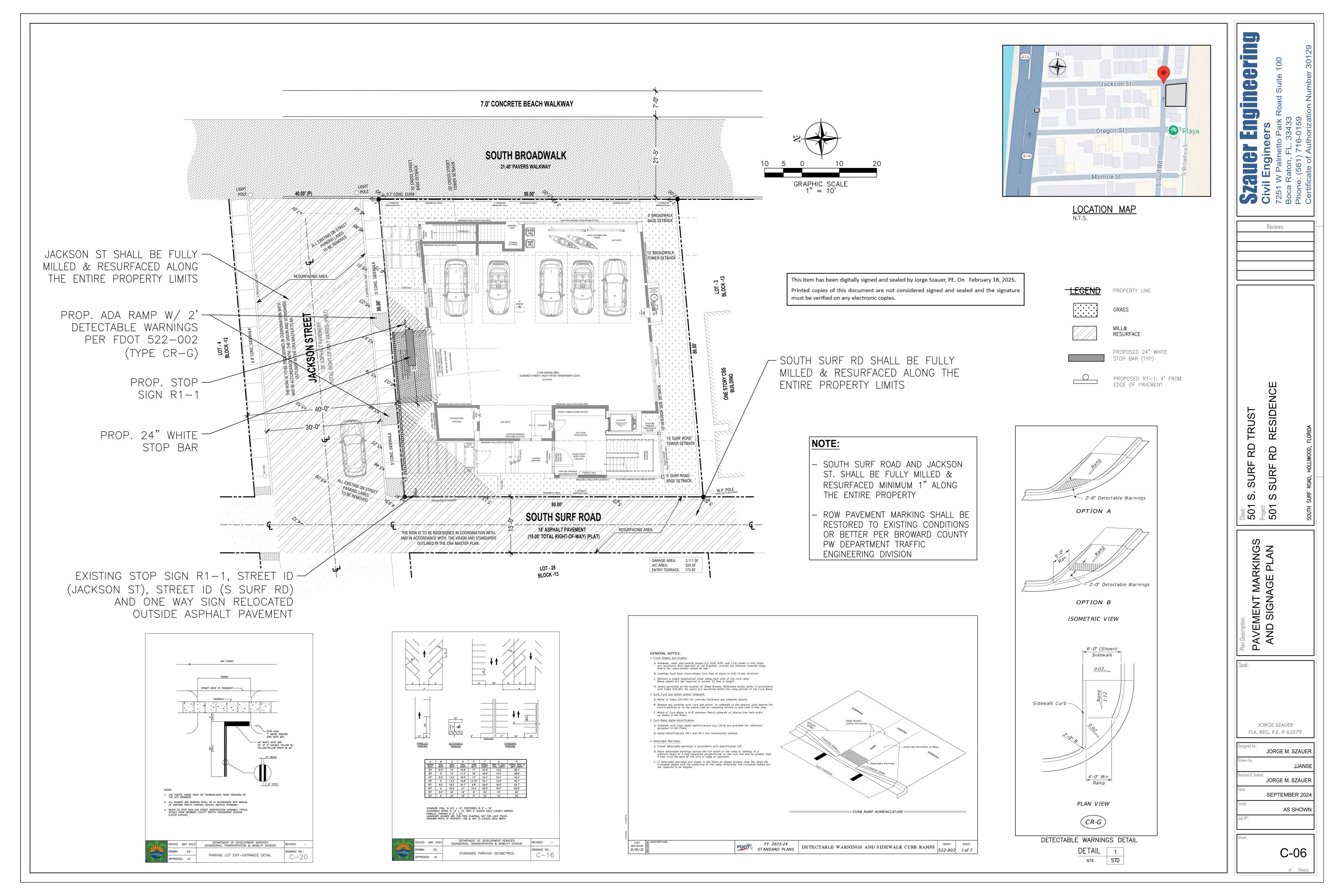
501 Project: 501

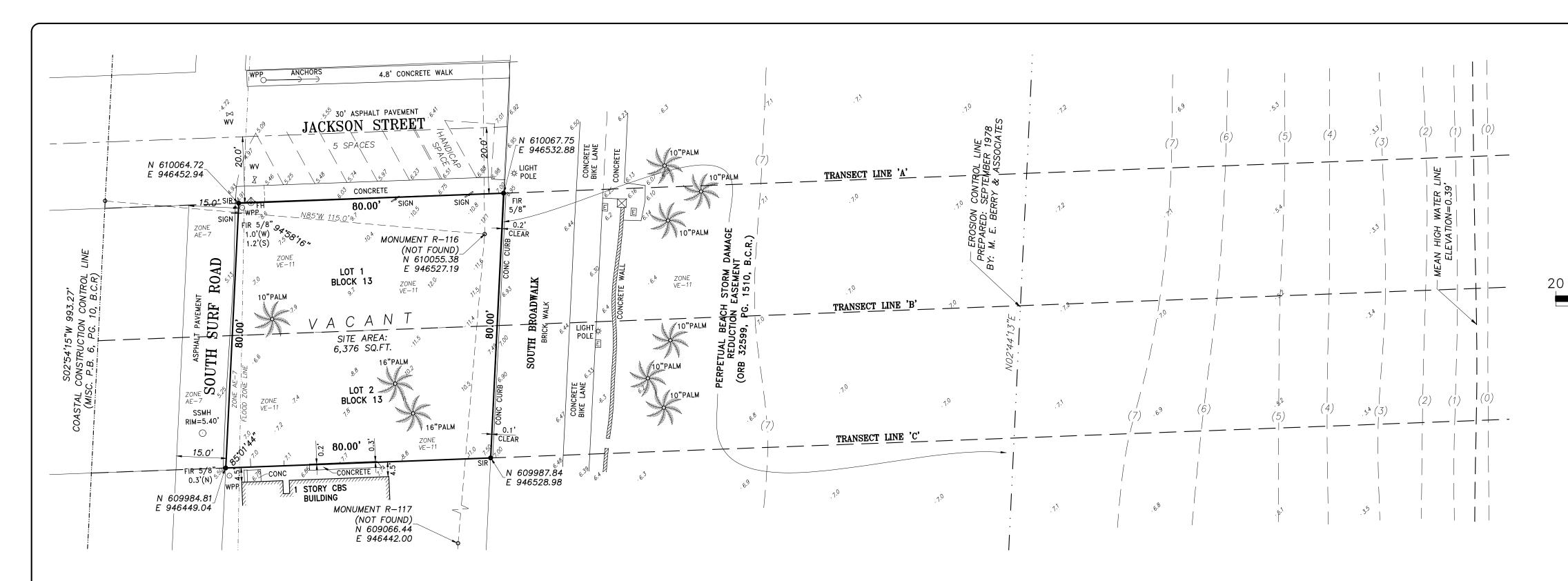
JORGE SZAUER FLA. REG. P.E. # 62579

> JORGE M. SZAUER JJANSE JORGE M. SZAUER SEPTEMBER 2024

AS SHOWN

C-05





# COASTAL CONSTRUCTION EROSION TRANSECT LINE 'A' ROAD

COASTAL CONSTRUCTION CONTROL LINE	WEST BOUNDARY LII	EAS INE BOUNDAR		TRANSECT LINE 'B'	EROSION CONTROL LINE		MEAN HIGH WATER LINE ELEVATION=0.39'
B							
8 - +	ROAD ASPHALT		CONC - WALI CURB - WALI CURB - WALI CURB - WALI CONC - WALI CONC - WALI			RFACH ARFA	
0	PAVEMENT -		BROAD WALK + BIKE -  -				

COASTAL CONSTRUCTI							MEAN HIGH
CONSTRUCTI	ION WE	ST	EAST	TRANSECT LINE 'C'	EROSION		WATER LINE
CONTROL LI	INE BOUNDA	RY LINE	BOUNDARY LINE	INAMSECT LINE C	CONTROL LINE		WATER LINE ELEVATION=0.39'
$C \vdash \dot{\downarrow} -$							
					<del>-</del>		i
		<i>PROJEC                                    </i>					
10 - + -	- — — — — —S—SURF -		conc	WALL			i i
8 ‡ =	= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$		CURB				
<del>                                    </del>			— — — — — — <del>Полининий ин </del>				
4		//′′_	— — — — — — — BRICK— — — CONC		F-^	FACH AREA	<del>/////////////////////////////////////</del>
	<del> </del>		— — — — — BROAD WALK— + BIKE+		_ <u></u>	L A V.II	
	— — — — — PAVEMENT —	_ — — — — — — — — — — — — —		_:	-		

#### NOTES:

- 1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OR DIGITAL SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND
- 2. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
- 3. THIS SURVEY WAS DONE SOLELY FOR BOUNDARY PURPOSES AND DOES NOT DEPICT THE JURISDICTION OF ANY MUNICIPAL, STATE, FEDERAL OR OTHER ENTITIES.
- 4. THE LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT.
- 5. UNDERGROUND IMPROVEMENTS NOT SHOWN.

SITUATED ON ADJOINING PREMISES.

- 6. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 7. BENCHMARK DESCRIPTION: BROWARD COUNTY BENCHMARK #3103 ELEVATION = 3.22' (NAVD88)
- 8. THIS SURVEY WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF FLORIDA.
- 9. ALL UTILITIES SERVING THE PROPERTY ENTER THROUGH ADJOINING PUBLIC STREETS AND/OR EASEMENTS OF RECORD. 10. THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS LOCATED ON THE PROPERTY, AND NO ENCROACHMENTS ONTO THE PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS
- 11. THE PROPERTY HAS DIRECT ACCESS TO SOUTH SURF ROAD, A DEDICATED PUBLIC STREET AS SHOWN ON PLAT BOOK 1, PAGE 27, SAME
- BEING PAVED AND DEDICATED PUBLIC ROADWAYS MAINTAINED BY THE CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA. 12. THERE ARE NO STRIPED PARKING SPACES ON THE PROPERTY.
- 13. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE PROPERTY. 14. THERE IS NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AFFECTING THE PROPERTY, ACCORDING TO BROWARD COUNTY, FLORIDA.
- 15. THERE IS NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS AFFECTING THE PROPERTY.
- 16. THERE IS NO OBSERVED EVIDENCE OF USE OF THE PROPERTY AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
- 17. NO FIELD DELINEATION OF WETLANDS MARKERS WERE OBSERVED.
- 18. THE PROPERTY DESCRIBED HEREON (THE "PROPERTY") IS THE SAME AS THE PROPERTY DESCRIBED IN TITLE COMMITMENT ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NUMBER: 24051600 WITH A COMMITMENT EFFECTIVE DATE OF APRIL 30, 2024 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.

#### STATE PLANE COORDINATE INFORMATION

(a) PROJECTION: UNIVERSAL TRANSVERSE MERCATOR PROJECTION AS ESTABLISHED FOR THE FLORIDA EAST ZONE COORDINATE SYSTEM.

### (b) DATUM:

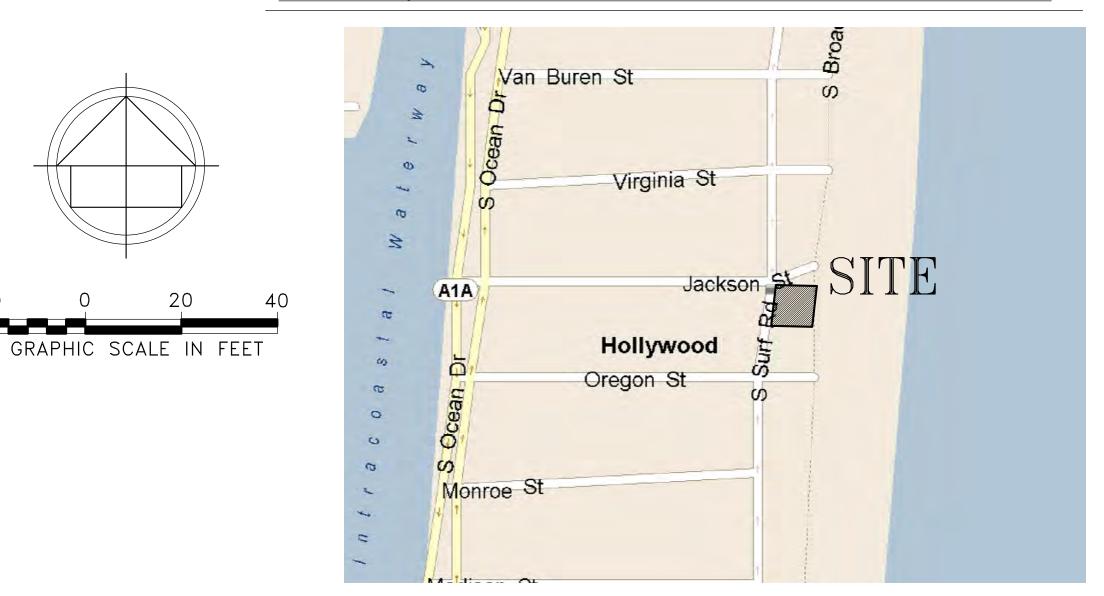
THE STATE PLANE COORDINATES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 WITH A SUBSEQUENT RE-ADJUSTMENT DONE IN 2011 (NAD 83 (NATIONAL SPATIAL REFERENCE SYSTEM 2011)). THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

#### (c) METHODOLOGY:

COORDINATES WERE DETERMINED USING THE TOPCON HI-PER SR AND THE TOPCON FC-5000 WITH THE TDS PACKAGE TOGETHER WITH THE 'L-NET' ROVER SYSTEM PACKAGE PROVIDED BY LENGEMANN CORPORATION. THE 'L-NET' NETWORK (A TOPNET GNSS NETWORK) UTILIZES A NETWORK OF REAL TIME KINEMATIC (RTK) REFERENCE STATIONS.

(d) ESTIMATED ACCURACIES: HORIZONTAL ACCURACIES TO 0.04' VERTICAL ACCURACIES TO 0.07'

# ALTA/NSPS LAND TITLE SURVEY



# LOCATION MAP (NTS)

#### LAND DESCRIPTION:

LOTS 1 AND 2, BLOCK 13 OF "HOLLYWOOD BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 27, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE INFOR	RMATION
COMMUNITY NUMBER	125113
PANEL NUMBER	0588J
ZONE	AE/VE
BASE FLOOD ELEVATION	7 & 11
EFFECTIVE DATE	07/31/24

#### REVIEW OF SCHEDULE B-II

ITEM# 7. RESERVATIONS AS SET FORTH ON THE PLAT OF HOLLYWOOD BEACH, AS RECORDED IN PLAT BOOK 1, PAGE 27, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (AFFECTS/PLOTTED)

ITEM# 8. PERPETUAL BEACH STORM DAMAGE REDUCTION EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 32599, PAGE 1510. OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (DOES NOT AFFECT/PLOTTED)

ITEM# 9. RESOLUTION NO. 06-H-108 RECORDED IN OFFICIAL RECORDS BOOK 43442, PAGE 1499 AND IN OFFICIAL RECORDS BOOK 44133, PAGE 758, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (AFFECTS/NOT PLOTTABLE)

LEGEND: CKD CHECKED BY CONC CONCRETE DRAWN BY DWN FIELD BOOK AND PAGE SET 5/8"IRON ROD & CAP #6448 SET NAIL & CAP #6448 FOUND IRON ROD FOUND IRON PIPE FOUND NAIL & CAP FOUND NAIL & DISK PERMANENT REFERENCE MARKER P.B. PLAT BOOK BROWARD COUNTY RECORDS B.C.R. FLORIDA POWER & LIGHT FPL CHAIN LINK FENCE OVERHEAD UTILITY LINES WATER METER WATER VALVE

CO CLEAN OUT BFP BACK FLOW PREVENTER ELECTRIC BOX WOOD POWER POLE 0.00 ELEVATIONS NTS

NOT TO SCALE COASTAL CONSTRUCTION CONTROL LINE AMERICAN LAND TITLE ASSOCIATION NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS

## CERTIFIED TO:

REVISIONS

LAW OFFICE OF KIMBERLY A ABRAMS & ASSOCIATES, P.A. OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY MELISSA M. GROSSMAN AS TRUSTEE UNDER THE 501 S SURF RD TRUST DATED THE 20TH DAY OF JUNE, 2024.

CCCL

ALTA

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6 (A), (B), (NON SUPPLIED), 7 (A), (B) AND (C), 8, 9, 13, 14, 16 AND 17 OF TABLE A THEREOF.

THE FIELDWORK WAS COMPLETED ON SEPTEMBER 05, 2024.

DATE FB/PG DWN CKD



RICHARD E. COUSINS PROFESSIONAL SURVEYOR AND MAPPER FLORIDA REGISTRATION NO. 4188

COUSINS SURVEYORS & ASSOCIATES, INC. 3921 SW 47TH AVENUE, SUITE 1011

DAVIE, FLORIDA 33314 CERTIFICATE OF AUTHORIZATION: LB # 6448 PHONE (954) 689-7766 EMAIL: ÒFFIĆE@CSASURVEY.NET

CLIENT:

501 S. SURF RD TRUST

SOUTH SURF ROAD HOLLYWOOD, FLORIDA

R E V I S I O N S	DATE	FB/PG	DWN	CKD
BOUNDARY AND IMPROVEMENTS SURVEY	06/04/24	SKETCH	JD	REC
ADDED CCCL INFORMATION	06/21/24	SKETCH	JD	REC
ALTA/NSPS LAND TITLE SURVEY	07/24/24		АМ	REC
ADDED TREES AND BEACH TOPO	09/05/24	SKETCH	JD	REC

PROJECT NUMBER: 10237-24

SCALE: 1" = 20'



SHEET

Project ID.: 501 Surf Rd Beach House Engineer: Jorge M. Szauer, P.E.

Client: Kaller Arch Date: 9/16/2024

#### Surface Water Management Calculations for 501 Surf Rd

Proposed is the construction of a Single Family residential building on a 0.14 acre site. The proposed surface water management system will consist of inlets, culverts and exfiltration trench. Required water quality treatment will be provided within the proposed exfiltration trench system.

#### SITE DATA

The site is located South of Jackson Street between S Surf Road and S Boardwalk in Hollywood, Florida, Broward County. The project consists of a 0.14 acre single family residential building. The existing land uses surrounding the site are residentiall to the North, South, East and West.

Table 1 summarizes the proposed landuse breakdown of the project

Table 1 - Site Landuse Breakdown

Description	Existing Site	Proposed Site
Total Area:	0.14 ac	0.14 ac
Roof Area:	0.00 ac	0.02 ac
Impervious Area:	0.00 ac	0.08 ac
Pervious Area:	0.14 ac	0.04 ac

Wet season water table elevation = 2.5' NAVD (based on the County's future conditions wet season water table elevation map)

Design Storm Rainfall Amount (see SFWMD Rainfall Curves attached)

Roads (10-year, 1-day) = 8 Inches Design (25-year, 3-day) = 13 inches Finish Floor (100-year, 3-day) = 16 inches

#### **DESIGN CRITERIA**

The proposed stormwater retention system has been design to retain the 25-year, 3-day storm runoff volume per code requirements. A drainage well is proposed to handle the stormwater runoff for the 25-year, 3-day and 100-year, 3-day storm events.

FEMA flood zone AE (11)

Broward County Future Conditions 100-year flood elevation = 7.0' NAVD

#### **WATER QUALITY**

Water quality requirements are defined based on the following criteria: the first inch of runoff over the entire site, or 2.5 inches times the percent impervious

- 2.5 inches times the perent impervious controls over the first inch of runoff over the entire site
- 2.5 inches times the percent impervious = 0.02 ac-ft (see water quality calculations attached)

#### **SOIL STORAGE**

Soil Storage (S) has been calculated to be 8.17 inches over the entire site for the existing site conditions and 1.88 inches for the site proposed conditions (see soil storage calculations attached)

#### **EXFILTRATION TRENCH CALCULATIONS**

Water Table Elevation: 2.5 FT NAVD

Average Finished Grade for Trench Purposes 6.0 FT NAVD

Exfiltration Trench Length = FS[(%WQ)(Vwq)+Vadd/(K(H2\*W +2\*H2\*Du - Du^2 + 2\*H2\*Ds)+(1.39E-4\*W\*Du))

L= 30 Ft - Length of trench required (60 LF provided)

%WQ= 75% Vwq= 0.24 ac-in

Vadd= 0.28 Acre-inch - Volume treated

W= 4 Ft - Trench Width

K= 7.58E-04 CFS/FT^2-Ft. Head - Hydraulic Conductivity

H2= 3.5 Ft - Depth to Water Table
Du= 2.5 Ft - Non-Saturated Trench Depth
Ds= 2 Ft - Saturated Trench Depth

FS= 2

This item has been digitally signed and sealed by Jorge Szauer, PE. On February 11, 2025.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

#### SITE STAGE STORAGE

	Existing 9	Stage Storaç	ge (ac-ft)	Proposed Stage Storage (ac-ft)			
Stage (ft NAVD)	Pervious (ac- ft)	Impervious (ac-ft)	Total (ac-ft)	Pervious (ac-ft)	Impervious (ac-ft)	Exfiltration Trench (ac-ft)	Total (ac-ft)
6.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04
6.50	0.00	0.00	0.00	0.02	0.02	0.04	0.08
7.00	0.00	0.00	0.00	0.04	0.06	0.04	0.14
7.50	0.00	0.00	0.00	0.06	0.10	0.04	0.20
8.00	0.02	0.00	0.02	0.08	0.14	0.04	0.26
8.50	0.04	0.00	0.04	0.10	0.18	0.04	0.32
9.00	0.07	0.00	0.07	0.12	0.22	0.04	0.38
9.50	0.11	0.00	0.11	0.14	0.26	0.04	0.44
10.00	0.16	0.00	0.16	0.16	0.30	0.04	0.50

#### **RUNOFF CALCULATIONS**

 $Q=(P-0.2S)^2/(P+0.8S)$ 

	Existing Conditions			Proposed Conditions					
Design Frequency	Precipitatio n P (in)	Soil Storage S (in)	Runoff Q (in)	Runoff Volume (Ac-ft)	Peak Stage (NAVD)	Soil Storage S (in)	Runoff Q (in)	Runoff Volume (Ac-ft)	Peak Stage (NAVD)
10y-1d	8.00	8.17	2.79	0.03	8.34	1.88	5.75	0.07	6.42
25y-3d	13.00	8.17	6.61	0.08	9.10	1.88	10.56	0.12	6.92
100y-3d	16.00	8.17	9.16	0.11	9.47	1.88	13.50	0.16	7.21

Proposed FFE 12.0

# **EXHIBITS**

Appendix C: Isohyetal Maps from SFWMD Technical Memorandum, Frequency Analysis of One and Three Day Rainfall Maxima for central and southern Florida, Paul Trimble, October 1990.

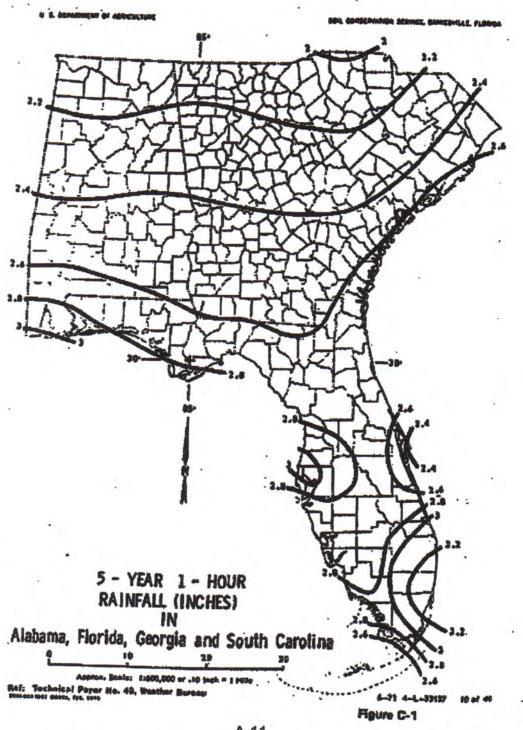


FIGURE 3 - SFWMD RAINFALL 5YR, 1 HR

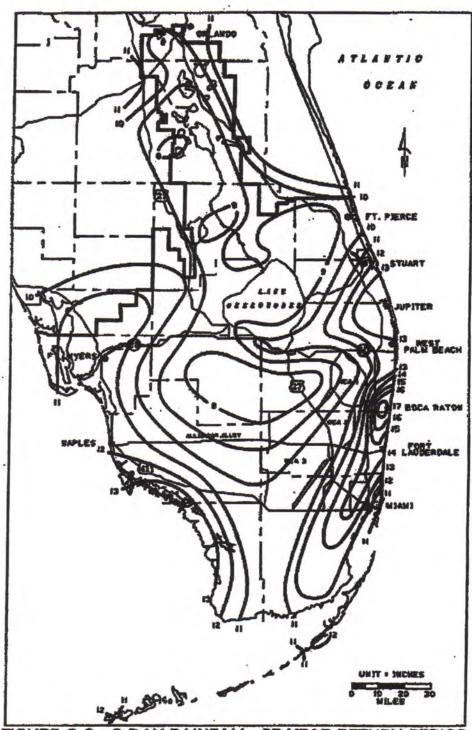


FIGURE C-8. 3-DAY RAINFALL: 25-YEAR RETURN PERIOD

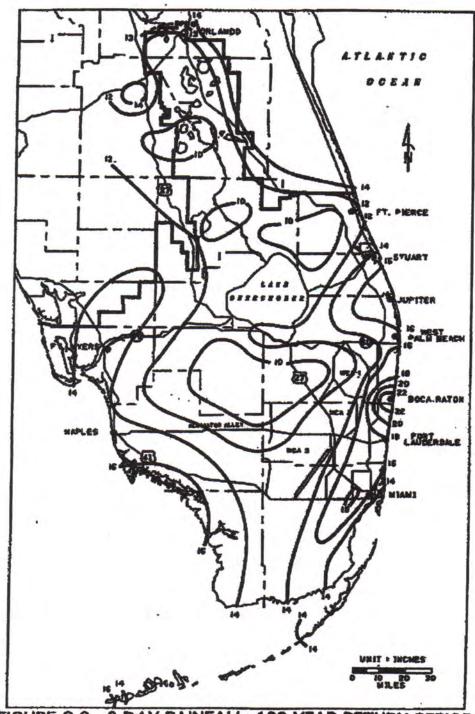


FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

FIGURE 5 SFWMD RAINFALL 100YR, 3 DAY

# **Water Quality Calculation**

2.5" \* % Impervious vs. 1" over site

Kantesaria Date: 16-Sep-24

Input data in boxes below:

Total Area: 0.14 acre
Lake & WL: 0.00 "
Roof: 0.02 "
Pervious Area: 0.04 "

#### 2.5 Inch \* % Impervious:

Vol = 2.5 /12 \* (Total - lakes) \* (Total - roof - lake - pervious )/(Total - roof - lake)

% Impervious = (Total - roof - lake - pervious )/(Total - roof - lake) Treatment Vol = 2.5" / 12 \* (Total - lake) \* (% Impervious)

% Impervious = 66.67%

Treatment Vol = 0.02 ac-ft

OR:

1" Over Entire Site:

Total Area: 0.14 acre

Treatment Vol = 0.01 ac-ft

The required water quality volume is based on: 2.5 X % Imperv. Area

The required water quality volume is: 0.02 acre-feet

Comments:

Soil Type: Coastal Soils; Sandy (1)

#### **Soil Storage Calculation**

2.5

0.000

	•
DWT	S (inches)
0	0
1	0.6
2	2.5
3	6.6
4	10.9

Project: 501 S Surf Rd Date: 16-Sep-24

User Enter Data is Shown in Blue & Bold Font

SHGWT (Seasonal high groundwater table elevation:

Total Impervious area (see note below):

ft NAVD acres

Pervious Area Description	Pervious Area Acreage (acres)	Low Elevation of Ground Surface (ft NGVD)	High Elevation of Ground Surface (ft NGVD)	Calculated Avg. Ground Surface Elvation (ft NGVD)	Calculated Depth to Groundwater (ft)	Calculated Uncompacted Soil Storage per SFWMD (inches)	Calculated Uncompacted Soil Storage per SFWMD (ac-ft)	Is Soil Compacted (enter Y or N)	Adjusted Soil Storage based on 75% Factor (ac-ft)	Note
Perv	0.140	7.0	11.0	9.00	6.50	10.900	0.127	y	0.095	Compacted Soil
				0.00	0.00	0.000	0.000	y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	у	0.000	
				0.00	0.00	0.000	0.000	у	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
Total	0.140	<- total perv	ious area						0.095	<- ac-ft (Total)

0.095

**Calculated Composite Soil Storage:** 

8.175 inches

CN = 1000/(S+10) =55.0

Note: The composite soil storage calculated above is based on the total ac-ft of soil storage divided over the entire site area including pervious and impervious area. If the user desires to calculate the composite soil storage over only the pervious area, then the impervious area should be entered as zero above.

#### Click here for Directions:

# **Site Storage Calculation**

Project Name: 501 S Surf Rd
Date: 16-Sep-24

User: enter

Minimum Stage: 6.000 feet, NAVD

Incremental Stage: 0.500 feet



Area Number	1		2	3	4	5	Total Area	
Area Description	Green							
Area (acres)	0.140						0.14 ac	
Area (ft^2)	6.10E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Low Elv.	7.000							
High Elv.	11.000							
Stage (ft, NAVD)	Storage (ac-	Stage (ft,	Total					
Stage (it, NAVD)	ft)	ft)	ft)	ft)	ft)	ft)	NAVD)	Storage
6.000	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00
6.500	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00
7.000	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00
7.500	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00
8.000	0.02	0.00	0.00	0.00	0.00	0.00	8.00	0.02
8.500	0.04	0.00	0.00	0.00	0.00	0.00	8.50	0.04
9.000	0.07	0.00	0.00	0.00	0.00	0.00	9.00	0.07
9.500	0.11	0.00	0.00	0.00	0.00	0.00	9.50	0.11
10.000	0.16	0.00	0.00	0.00	0.00	0.00	10.00	0.16
10.500	0.21	0.00	0.00	0.00	0.00	0.00	10.50	0.21
11.000	0.28	0.00	0.00	0.00	0.00	0.00	11.00	0.28
11.500	0.35	0.00	0.00	0.00	0.00	0.00	11.50	0.35
12.000	0.42	0.00	0.00	0.00	0.00	0.00	12.00	0.42
12.500	0.49	0.00	0.00	0.00	0.00	0.00	12.50	0.49
13.000	0.56	0.00	0.00	0.00	0.00	0.00	13.00	0.56
13.500	0.63	0.00	0.00	0.00	0.00	0.00	13.50	0.63

#### **SCS Runoff Equation:**

501 S Surf Rd

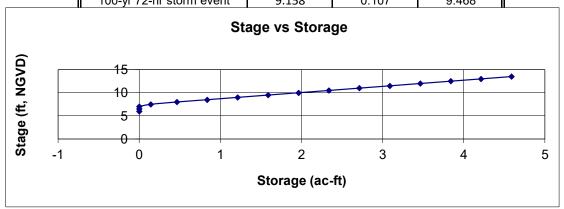
Rainfall & Basin Information:

-		_
Total Site Area (including buildings):	0.140	acres
Composite Soil Storage:	8.17	inches
5-yr 1-hr storm event:	3.28	inches
10-yr 24-hr storm event	8.00	inches
		inches
25-yr 72-hr storm event	13.00	inches
100-yr 72-hr storm event	16.00	inches

# Zero-Discharge Runoff Volume & Interpolated Stages:

Runoff (inches) =  $(P-0.2S)^2 / (P + 0.8*S)$ 

Design Storms (from above)	Runoff (in)	Runoff (ac-ft)	Stage (ft)
5-yr 1-hr storm event:	0.276	0.003	7.368
10-yr 24-hr storm event	2.788	0.033	8.343
0	0.409	0.005	7.515
25-yr 72-hr storm event	6.613	0.077	9.091
100-yr 72-hr storm event	9.158	0.107	9.468



Soil Type: Coastal Soils; Sandy (1)

### **Soil Storage Calculation**

DWT	S (inches)
0	0
1	0.6
2	2.5
3	6.6
4	10.9

Project: 501 S Surf Rd Date: 16-Sep-24

User Enter Data is Shown in Blue & Bold Font

SHGWT (Seasonal high groundwater table elevation:

2.5 ft NAVD

0.100 Total Impervious area (see note below): acres

Pervious Area Description	Pervious Area Acreage (acres)	Low Elevation of Ground Surface (ft NAVD)	High Elevation of Ground Surface (ft NAVD)	Calculated Avg. Ground Surface Elvation (ft NAVD)	Calculated Depth to Groundwater (ft)	Calculated Uncompacted Soil Storage per SFWMD (inches)	Calculated Uncompacted Soil Storage per SFWMD (ac-ft)	Is Soil Compacted (enter Y or N)	Adjusted Soil Storage based on 75% Factor (ac-ft)	Note
Green	0.040	6.0	6.0	6.00	3.50	8.750	0.029	у	0.022	Compacted Soil
				0.00	0.00	0.000	0.000	y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	у	0.000	
				0.00	0.00	0.000	0.000	y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	
				0.00	0.00	0.000	0.000	Y	0.000	_
				0.00	0.00	0.000	0.000	Y	0.000	_

Total

0.040

<- total pervious area

0.022

<- ac-ft (Total)

**Calculated Composite Soil Storage:** 

**1.875 inches** 

CN = 1000/(S+10) =

84.2

Note: The composite soil storage calculated above is based on the total ac-ft of soil storage divided over the entire site area including pervious and impervious area. If the user desires to calculate the composite soil storage over only the pervious area, then the impervious area should be entered as zero above.

# Exfiltration Trench Calculation Reference: SFWMD Vol. IV

501 S Surf Rd

#### 1 C Curf Dd

#### Case 1:

Length = Volume /  $(K(H_2*W + 2*H_2*Du - Du^2 + 2*H_2*Ds) + (1.39E-4*W*Du))$ 

This formula takes into consideration a safety factor of 2 and a 50% credit for retention system.

Variable Definitions:

Ds = Saturated Depth of Trench (ft)

Du = Unsaturated Depth (ft)

H<sub>2</sub> = Depth from Land Surface to Water Table (ft)

W = Trench Width (ft)

Volume = Required Wet Detention Volume (ac-in)

Length = Calculated Trench Length (ft)

K = Hydraulic Conductivity (ft/sec)

Note: (a)This equation (Case 1) is a special case. Validity criteria: (1) Ds<Du. (2) W < 2\* (Ds+Du) (b) Minimum pipe diameter is 12 inches, minimum trench width (W) is 3 ft.

#### Input:

Ds =	2	ft	Validity Check:	
Du =	2.5	ft (1)	Ds < Du ?	Yes
$H_2 =$	3.5	ft (2)	W < 2* (Ds+Du)?	Yes
W =	4	ft (3)	W > 3 ?	Yes
Volume =	0.46	ac-in		
K =	7.58E-04	cfs/ft^2 (i.e. ft/sec)		

Case 1: Calulated Trench Length = 15 ft

#### Case 2:

Length = Volume / (K( $2*H_2*Du - Du^2 + 2*H_2*Ds$ ) + (1.39E-4\*W\*Du))

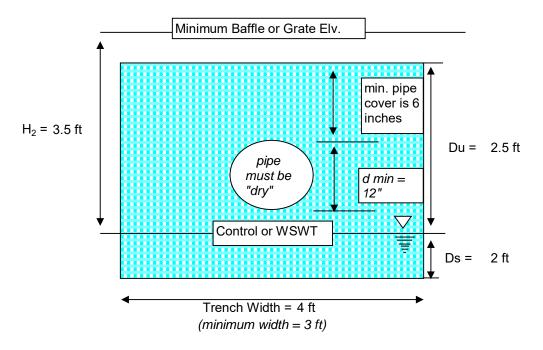
This formula takes into consideration a safety factor of 2 and a 50% credit for retention system. This formula is valid if W > 2(Ds+Du) and Ds>Du.

Note: (a)This equation (case 2) is a special case. Validity criteria: (1) Ds>Du. (2) W > 2\* (Ds+Du) (b) Minimum pipe diameter is 12 inches, minimum trench width (W) is 3 ft.

Case 2: Calulated Trench Length = 
$$\frac{22 \text{ ft}}{(1) \text{ Ds} > \text{Du ?}}$$
 criterion NOT met  $\frac{22 \text{ ft}}{(2) \text{ W} > 2^* \text{ (Ds+Du)?}}$  criterion NOT met

2/11/2025

# 501 S Surf Rd



#### Click here for Directions:

# **Site Storage Calculation**

Project Name: 501 S Surf Rd
Date: 16-Sep-24

User: *enter* 

Minimum Stage: 6.000 feet, NAVD

Incremental Stage: 0.500 feet



Area Number	1		2	3	4	5	Total Area	
Area Description	Green	Parking	Exf Trench					
Area (acres)	0.040	0.080					0.12 ac	
Area (ft^2)	1.74E+03	3.48E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Low Elv.	6.000	6.000						
High Elv.	6.000	6.500						
Stage (ft, NAVD)	Storage (ac-	Storage (ac-	Storage (ac-	Storage (ac	Storage (ac-	Storage (ac-	Stage (ft,	Total
Stage (it, NAVD)	ft)	ft)	ft)	ft)	ft)	ft)	NAVD)	Storage
6.000	0.00	0.00	0.04	0.00	0.00	0.00	6.00	0.04
6.500	0.02	0.02	0.04	0.00	0.00	0.00	6.50	0.08
7.000	0.04	0.06	0.04	0.00	0.00	0.00	7.00	0.14
7.500	0.06	0.10	0.04	0.00	0.00	0.00	7.50	0.20
8.000	0.08	0.14	0.04	0.00	0.00	0.00	8.00	0.26
8.500	0.10	0.18	0.04	0.00	0.00	0.00	8.50	0.32
9.000	0.12	0.22	0.04	0.00	0.00	0.00	9.00	0.38
9.500	0.14	0.26	0.04	0.00	0.00	0.00	9.50	0.44
10.000	0.16	0.30	0.04	0.00	0.00	0.00	10.00	0.50
10.500	0.18	0.34	0.04	0.00	0.00	0.00	10.50	0.56
11.000	0.20	0.38	0.04	0.00	0.00	0.00	11.00	0.62
11.500	0.22	0.42	0.04	0.00	0.00	0.00	11.50	0.68
12.000	0.24	0.46	0.04	0.00	0.00	0.00	12.00	0.74
12.500	0.26	0.50	0.04	0.00	0.00	0.00	12.50	0.80
13.000	0.28	0.54	0.04	0.00	0.00	0.00	13.00	0.86
13.500	0.30	0.58	0.04	0.00	0.00	0.00	13.50	0.92

#### **SCS Runoff Equation:**

501 S Surf Rd

Rainfall & Basin Information:

-		_
Total Site Area (including buildings):	0.140	acres
Composite Soil Storage:	1.88	inches
5-yr 1-hr storm event:	3.28	inches
10-yr 24-hr storm event	8.00	inches
		inches
25-yr 72-hr storm event	13.00	inches
100-yr 72-hr storm event	16.00	inches

# Zero-Discharge Runoff Volume & Interpolated Stages:

Runoff (inches) =  $(P-0.2S)^2 / (P + 0.8*S)$ 

Design Storms (from above)	Runoff (in)	Runoff (ac-ft)	Stage (ft)
5-yr 1-hr storm event:	1.763	0.021	#N/A
10-yr 24-hr storm event	6.116	0.071	6.417
0	0.094	0.001	#N/A
25-yr 72-hr storm event	10.988	0.128	6.918
100-yr 72-hr storm event	13.946	0.163	7.206

